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Lidicker, W. Z.

1975-1978

Catalogue

3392 - 3609

Calif

Oregon

Alaska

Colorado

Switzerland (pt.)

LIDICKER
1975

4 1/4 mi. W, 2 1/2 mi. S Leggett, Mendocino Co., Calif.

March 23 1975

✓3392.	♂	<i>Microtus californicus</i>	50 g.	test. 8 x 5 mm 185-53-23-16
✓3393.	♀	"	39 g.	5 emb. x 7 mm 175-48-21.5-15
✓3394.	♀	"	42 g.	4 emb. x 11 mm 179-47-21-16
✓3395.	♀	"	22 g.	multiple parous 141-35-21-13
✓3396.	♂	"	24 g.	test. 6 x 4 mm 151-40-21-13
✓3397.	♂	"	26 g.	test. 6 x 4.5 mm 146-35-21-15

Big Legom, 8 mi. S, 2 1/2 mi. W Orick, Humboldt Co., Calif.

March 24

✓3398.	♀	<i>Sorex</i>	2 1/2 g.	102-38-12.5-5
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4 1/4 mi. W, 2 1/2 mi. S Leggett, Mendocino Co., Calif.

March 23

✓3399.	♂	<i>Microtus californicus</i>	50 g.	test. 6 x 4.5 mm 185-50-22-15
✓3400.	♂	"	45 g.	test. 6 x 4 mm 186-53-22-15

Juan Creek, 2 3/4 mi. N Rockport, Mendocino Co., Calif.

March 23

✓3401.	♀	<i>Microtus californicus</i>	52.5 g.	5 emb. x 19 mm 183-44-22-14
✓3402.	♀	"	38 g.	5 fresh de. scars 180-47-21.5-15
✓3403.	♀	"	27 g.	5 emb. x 1 1/2 mm 159-35-20-14

✓3404. *Batrachoseps attenuatus*

4 mi. S Selma, 1350 ft., Josephine Co., Oregon

March 25

✓3405.	♀	<i>Microtus</i>	36 g.	no emb. parous 165-42-22-14
✓3406.	♀	"	41 g.	1 fresh x 4 mm, none gr. well developed 177-43-22.5-15
✓3407.	♀	"	41 g.	6 emb. x 4 mm 170-44-22-15

LIDICKER
1975

Dry Lagoon Beach St. Park, $3\frac{1}{2}$ mi. S, $2\frac{3}{4}$ mi. W Orick, Humboldt Co., Calif.
March ~~23~~ 23

3408 *Hyla regilla*

March 24

3409 ♀ *Microtus longicaudus*

28 g. 179-52-22-14
176 5 mm. x 3 mm.

3410 ♀ " "

29 g. 178-56-21-14
testis 12 x 6.5 mm

3411 ♂ " "

35 g. 188-66-23-15
testis 12 x 7 mm

3412 ♂ " "

33.5 g. 178-59-22-14

0.6 mi. W Klamath River, 1750 ft., Siskiyou Co., Calif.

March 26

3413 ♀ *Sorex*

7.8 g.

5 mm. x 15 mm → 12.5
115-45-8-6

$\frac{1}{4}$ mi. E. Hamburg, 1575 ft., Siskiyou Co., Calif.

March 26

3414 ♂ *Sorex*

6.8 g. 121-48-15-7
4 mm. x 6 mm

3415 ♀ *Sorex*

5.7 g. 117-47-14-7
mullip. 1/2 mm. wide, cycling.

3416 ♀ *Microtus*

27.6 g. 151-35-21.5-13

0.6 mi. W. Klamath River, 1750 ft., Siskiyou Co., Calif.

March 26

3417 ♀ *Microtus*

L+K - 3413

6 mm. x 3 mm
48 g. 178-48-22-16

$\frac{1}{4}$ mi. E. Hamburg, 1575 ft., Siskiyou Co., Calif.

March 26

3418 ♂ *Microtus*

coll. by D. Krohn
dead in trap
62.6 g.

test. 8.5 x 5 mm.
204-55-23.5-17
test. 6.5 x 4 mm.

3419 ♂ *Peromyscus maniculatus*

2 sp. ticks

coll. by S. Yang

15.8 g. 153-67-20-14.5

3420 ♂ *Peromyscus truei*

dead in trap

31.8 g. 193-87-24-23

3421 ♂ *Microtus*

B, L+K

53 g.

test. 8.5 x 5.5 mm.
176-44-22.5-15
e.t. visible; s.v. 12 mm

LIDICKER

1975

0.6 mi. W Klamath River, 1750 ft., Siskiyou Co., Calif.

March 26

3422 ♀ *Microtus* B, K+L 41g 4 R. scs. 179-44-22-15

Klamath River, 1750 ft., Siskiyou Co., Calif.

March 26

3423 ♀ *Microtus* B, K+L 43g 7 scs. x 6 mm. ext. body molt 173-43-23-14

1/4 mi. E Hamburg, 1575 ft., Siskiyou Co., Calif.

March 26

3424 ♂ *Peromyscus truei* B, K+L 17g killed 3 April test. 7.5 x 4 mm. 186-89-25-22.5

3425 ♀ " " B, K+L 13g killed 3 April nullip. 173-80-23-21

3426 ♀ " " B, K+L 30g killed 3 April 2 pl. scs. 201-96-24.5-23

3427 ♂ " " B, K+L 24g killed 3 April test. 12 x 7 mm. 177+-78+-23-23

Juan Creek, 2 3/4 mi. N Rockport, Mendocino Co., Calif.

March 23

3428 ♀ *Peromyscus maniculatus* nullip. died on 3 April. 19.0g 170-78-21-16

1/4 mi. E Hamburg, 1575 ft., Siskiyou Co., Calif.

March 26 (killed Apr. 10)

3429 ♂ *Peromyscus maniculatus* test. 9 x 5.5 mm. ext. dev. 19.7g 169-74-21-16

3430 ♂ " " test. 9 x 6 mm. ext. dev. 20.4g 178-83-21.5-17

3431 ♀ " " nullip. horns sl. dev. 21.2g 166-71-21-16

3432 ♂ " truei test. 12 x 7 mm. ext. dev. 28.7g 192-90-22-18

3433 ♀ " " no emb. 23.8g 190-91-22-18.5

Brooks Island, Contra Costa Co., Calif.

9-14 April

(coll. by F.C. McCallum)

3434 ♂ *Microtus californicus* B, K+L test. 9 x 5.5 mm. 57.0g 193-53-22-14

3435 ♀ " " FCM 13 B, K+L 44.8g horns, 2+ sets pl. scs, ripe follic. test. 186-53-22.5-15

3436 ♂ " " FCM 21 B, K+L test. 9 x 5.5 mm. pl. scs in ex. 53.0g 188-52-22.5-14

LIDICKER

1975

Brooks Island, Contra Costa Co., Calif.

9-14 April (coll. by F.C. McCallum)

3437	♂	<i>Microtus californicus</i>	FCM 23	B, K, + L	test. 9x6 mm.	42.8 g	180-49-22-14
3438	♀	"	FCM 44	B, K, + L.	6 emb. x 3 mm + pl. scars; lact.	42.0 g	177-48-20-13.5
3439	♀	"	FCM 12	B, K, + L	no emb., 5 pl. scars	44.8 g	182-51-22-13
3440	♀	"	FCM 25	B, K, + L	2 emb. x 8 mm. + 1 x 4 mm + pl. scars.	44.3 g	185-53-21-14
3441	♂	"	FCM 18	B, K, + L	test. 9x6 mm	52.3 g	185-51-21.5-14
3442	♂	"	FCM 28	B, K, + L.	test. 9x6 mm.	49.9 g	176-43-22-13.5
3443	♂	"	FCM 35	B, K, + L.	test. 9x6 mm.	53.9 g	185-47-21-13
3444	♀	"	FCM 7	B, K, + L.	5 emb. x 12 mm.	42.3 g	172-45-22-14
3445	♀	"	FCM 32	B, K, + L.	6 emb. x 19 mm.	46.7 g	168-44-21-13
3446	♀	"	FCM 6	B, K, + L.	pl. scars both emb.; test. 8x5.5 mm	46.4 g	177-45-21-14
3447	♂	"	FCM 40	B, K, + L.	test. 4.5x3 mm.	19.2 g	124-32-19-11
3448	♂	"	FCM 47	B, K, + L	test 5x3 mm.	20.5 g	132-34-20-10
3449	♀	"	FCM 41	B, K, + L.	5 emb. x 3 mm.	26.7 g	141-36-19.5-12
3450	♀	"	FCM 9	B, K, + L.	implip., horns $\frac{1}{2}$ mm. wide; 3 teeth c.l.	21.1 g	134-35-20-12
3451	♂	"	FCM 42	B, K, + L.	test. $6\frac{1}{2} \times 4\frac{1}{2}$ mm; test. not visible	26.5 g	150-41-20.5-13
3452	♀	"	FCM 17	B, K, + L.	no emb., 9 pl. scars (1+ set)	36.0 g	176-49-20.5-14
3453	♀	"	FCM 4	B, K, + L.	6 emb. x 2 mm. + pl. scars.	36.7 g	175-48-22.5-14
3454	♀	"	FCM 22	B, K, + L.	7 emb. x 3 mm + pl. scars.	36.1 g	171-46-21-13
3455	♀	"	FCM 30	B, K, + L.	no emb., 7 distinct + 3 faint + pl. scars.	37.2 g	175-48-20.5-14
3456	♂	"	FCM 19	B, K, + L.	test. $6\frac{1}{2} \times 4\frac{1}{2}$ mm; test. visible	36.7 g	163-43-20.5-13.5
3457	♀	"	FCM 33	B, K, + L.	no emb., many pl. scars; 4 c. hemorrh. in 10 or.	39.9 g	177-46-21-14.5
3458	♀	"	FCM 56	B, K, + L.	7 emb. x 7 mm., lact.	38.2 g	190-50-21.5-13
3459	♀	"	FCM 47	B, K, + L.	5 fresh pl. scars	38.7 g	168-44-22-13
3460	♀	"	FCM 1	B, K, + L.	6 emb. x 4 mm., lact.	40.5 g	173-46-21.5-12.5
3461	♀	"	FCM 36	B, K, + L.	no emb., lact.	40.3 g	170-42-20-13

LIDICKER
1975

Brooks Island, Contra Costa Co., Calif.

9-14 April (coll. by F.C. McCollum)

3505	♂	<i>Microtus californicus</i>	FCM 14	B, L, & K. test. 7x5, et. visible	45.9g	176-44-21-14
3462	♂	BUFFY	FCM 49	B, L, & K. test. 8x6, et. visible	53.4g	182-48-22-14
3463	♀	"	FCM 46	B, L, & K. pl. 5cm, test.	48.2g	172-4-38-21.5-13
3464	♀	BUFFY	FCM 10	B, L, & K. 9 emb. x 9mm, test.	48.8g	188-5-21-15.5
3465	♂	"	FCM 20	test. 8x5mm, et. visible	53.7g	183-45-22-14
3466	♀	"	FCM 2	B, L, & K. 6 emb. x 25mm	43.1g	143-35-19.5-12
3467	♂	"	FCM 27	B, L, & K. test. 8x5mm, et. visible	50.1g	183-49-20.5-14
3468	♂	"	FCM 48	B, L, & K. test. 8x5mm, et. visible	54.1g	186-51-22-14

50 km. NW. Fairbanks, along Elliott Highway, Alaska

July 24 (coll. by S. West)

3469	♀	<i>Clethrionomys rutilus</i>	B, L, K	7 emb. x 9mm, test.	28.5g	135-28-19.5-14
3470	♀	"	B, L, K.	4 emb. x 7mm	26.5g	135-25-19-13.5

1/2 mi. NW Univ. of Alaska, Fairbanks, Alaska

July 19 (killed July 24) - coll. by S. West

3471	♂	<i>Clethrionomys rutilus</i>	B, L, K	test. 11x7mm, et. visible	23.7g	130-31-20-13.5
3472	♂	<i>Microtus oeconomus</i>	B, L, K.	test. 8x5 1/2mm, et. visible	39g	160-34-20-12

Yukon Haul Rd, 3.8 mi. N Hess Creek Bridge, 1000 ft. 21.5 mi. NW

July 28

Livingood, Alaska

3473	♂	<i>Clethrionomys rutilus</i>	B, L, K.	test. 2 1/2 x 1 1/2mm	17g	124-30-19-13
3474	♂	<i>Microtus xanthognathus</i>	B, L, K.	test. 3 x 1 1/2mm	35.5g	156-36-24-15
3475	♀	"	B, L, K	test.	33.5g	145-32-24-15
3476	♀	"	B, L, K	test.	35g	153-32-23-14
3477	♂	<i>Clethrionomys rutilus</i>	B, L, K	test. 3 x 1 1/2mm	19.5g	133-29-20-14
3478	♂	"	B, L, K	test. 2 1/2 x 1 1/2mm	16.5g	114-23-19-14
3479	♂	"	B, L, K	test. 3 x 1 1/2mm	17g	122-27-19.5-12.5
3480	♀	<i>Microtus</i>	B, L, K	4 emb. x 18mm, + 1 emb. x 5mm	26.5g	148-36-19.5-10

LIDICKER
1975

Yukon Haul Rd. 3.8 mi. N. Hass Creek Bridge, 1000 ft., 21.5 mi. NW

July 28

Livergood, Alaska

3481	♀	<i>Clethrionomys rutilus</i>	B, L+K	17g	no emb, nullip.	113-29-18-12
3482	♀	<i>Microtus</i>	B, L+K	34g	lost, no emb.	155-32-19-11.5
3483	♂	<i>Microtus pennsylvanicus tanaensis</i>	B, L+K	17g	test 2x1mm.	159-28-17.5-11
3484	♂	"	B, L+K	35.5g	test 14x9mm; 4+ visible	157-32-19.5-12.5
3485	♂	<i>Clethrionomys rutilus</i>	B, L+K	15.5g	test 2x1mm.	116-22-18-13
3486	♀	<i>Microtus</i>	B, L+K	18g	nullip.	123-28-18.5-11

Yukon Haul Rd. 4.3 mi. N. Hass Creek Bridge, 1000 ft., 22 mi. NW

July 28

Livergood, Alaska

3487	♂	<i>Microtus xanthognathus</i>	B, L+K	45g	test 3x1½mm	164-34-24-16
3488	♂	"	B, L+K	27.5g	test 2x1½mm	135-29-22-13
3489	♂	<i>Clethrionomys</i>	B, L+K	16.5g	test 2x1mm	122-25-19-14
3490	♀	<i>Microtus xanthognathus</i>	B, L+K	19.5g	nullip.	128-27-21-12
3491	♀	"	B, L+K	38.5g	nullip.	149-32-22.5-14
3492	♀	"	B, L+K	49g	test 3x1½mm	162-36-24-16
3493	♀	"	B, L+K	35.5g	test 3x1½mm	153-33-23-15
3494	♀	"	B, L+K	85.5g	no emb, farous; ov. inactive	204-48-23-17
3495	♀	"	B, L+K	86g	no emb, faint pl. scars	201-41-24.5-17.5
3496	♀	"	B, L+K	86g	no emb, farous; ov. inactive	201-45-24-17.5
3497	♂	"	B, L+K	33g	test 3x1½mm	152-33-23.5-15
3498	♂	"	B, L+K	32.5g	test 3x1½mm	153-32-24-15
3499	♀	"	B, L+K	72.5g	no emb, no pl. scars, 4+ farous	196-40-24.5-17
3500	♀	"	B, L+K	30.5g	nullip.	147-33-23.5-13
3501	♂	"	B, L+K	29.5g	test 3x1½mm	140-29-23-13.5
3502	♀	"	B, L+K	22g	nullip.	121-27-21.5-12.5
3503	♀	"	L+K	17g	nullip.	118-28-21-12

LIDICKER

1975

+
1976

Yukon Haul Rd. 4.3 mi. N Hess Creek Bridge, 1000 ft., 22 mi. NW

July 28

Livingood, Alaska

3504 ♂ *Microtus xanthognathus*

L+K. test $2\frac{1}{2} \times 1\frac{1}{2}$ mm
24 g. 130-30-22-12.5

3505 (see above 3462)

Hastings Natural History Reservation, Monterey Co., Calif.

Nov 15

coll. J. Patton

3506 ♂ *Leontideus concolor*

26.5 g

test. $3 \times 1\frac{1}{2}$ mm

142-52-13.5-17

$1\frac{3}{4}$ km. N, $1\frac{1}{4}$ km. W Colfax, 2200 ft., Placer Co., Calif.

March 14, 1976

• B, K, L.
3507 ♀ *Microtus californicus*

26.0 g

3 ant. x 5 mm. (possib. resorption)

155-42-19-14

Yukon Haul Rd. 2.5 mi. N Hess Creek Bridge, 1000 ft., 20 mi. NW

Aug. 28

Livingood, Alaska

3508 ♂ *Microtus oeconomus* ? 17 g.

BLK.

test. $2 \times 1\frac{1}{2}$ mm

122-25-18-12

450 ft. Univ. of Alaska
Experimental Farm, ~~Atkas~~ Fairbanks, Alaska

Aug. 30

3509 ♀ *Microtus pennsylvanicus*

BLK

32 g

prev. stud. ?; no opp. disc.
test. 3 ant. x 22 mm.

161-38-19.5-13

3510 ♂

"

BLK

17 g

test. 3×2 mm

131-30-20-12

3511 ♂

"

BLK

48 g

test. 8 x 6 mm; 1st. v. 12 mm; sv. 12 mm

176-41-20-13

1 mi. NW Univ. of Alaska 500 ft. Fairbanks, Alaska

Aug. 30

3512 ♀ *Microtus oeconomus*

BLK. 23 g

test. $2\frac{1}{2} \times 1\frac{1}{2}$ mm

136-31-20.5-11.5

3513 ♂

"

BLK

20 g

test. $2\frac{1}{2} \times 2$ mm

135-31-20-11.5

3514 ♂

"

BLK

20 g

test. $2\frac{1}{2}$ mm x $1\frac{1}{2}$ mm

132-29-20.5-11.5

3515 ♀

"

BLK

16.5 g

multip.

126-24-19.5-11

3516 ♀

"

comp. 2 PM. BLK.

20 g

multip.

132-30-20-11

Aug. 31

3517 ♀

"

B, LK

18 g

multip.

127-27-19-11.5

LIDICKER

1976

450 ft.
Experimental Farm Univ. of Alaska, Fairbanks, Alaska

Aug. 31

3518. ♀ *Microtus pennsylvanicus* B, L, K. Lower 1 1/2 in. wide, no scars; or. in ventral 31 g 163-38-21-13
3519 ♀ *Microtus rixosa* B, L, K. no endo forms?; or. dy. but not off. 28 g 161-16-21-13
3520. ♂ *Microtus pennsylvanicus* B, L, K. test. 3x2- 18 g 140-34-19-12
3521 ♂ " " B, L, K. test. 3 1/2 x 2- 20 g 142-33-19.5-12
3522. ♂ " " B, L, K. test. 2 1/2 x 2- 17.5 g 134-30-19.5-11.5

1 mi. NW Univ. of Alaska, 500 ft., Fairbanks, Alaska

Aug. 31

3523. ♀ *Microtus oeconomus* B, L, K. test. 2 1/2 x 1 1/2- 12.5 g 127-29-20-11
3524. ♀ " " full width sup. B, L, K. 5 mm x 30 mm + 1 mm x 10 mm - lact. 47 g 166-40-19.5-14
3525. ♂ " " B, L, K. test 7x5 mm, at. visible - 24.8 g 43.5 g 188-46-21-13.5

5 mi. N. Univ. of Alaska, 850 ft., Fairbanks, Alaska

Aug. 31

3526. ♂ *Microtus pennsylvanicus* B, L, K. test 2 1/2 x 1 1/2- 18 g 135-30-20-11
3527. ♂ " " B, L, K. test 2 x 1 1/2- 16 g 128-29-19.5-10.5

Yukon Haul Rd., 4 mi. N Hess Creek Bridge, 1000 ft., 22 mi. NW Livengood, Alaska

Aug. 28⁸⁹

3528. ♀ *Microtus oeconomus* 4 mm vent. al. scars, lact. 240 g 145-30-18.5-11

Yukon Haul Rd., 2.5 mi. N Hess Creek Bridge, 1000 ft., 20 mi. NW Livengood, Alaska

Aug. 29

3529. ♂ *Microtus pennsylvanicus* test. 3x1 1/2- 138 g 117-30-18-10

Experimental Farm, 450 ft., University of Alaska, Fairbanks, Alaska

Aug. 30

3530. ♂ *Microtus pennsylvanicus* test. 8x4 1/2 mm, at. not visible, S.V. 7 mm 38.2 g 171-43-21.5-12.5
3531. ♂ " " test. 8x5 1/2 mm, at. visible, S.V. 12 mm 38.2 g 174-44-20.5-13

LIDICKER
1976

Yukon Hand Rd., 3.8 mi. N Hess Creek Bridge, 1000 ft., 22 mi. NW
Livingood, Alaska

Aug. 28

- 3532 ♂ *Microtus xanthognathus* JOW # 129 48g fast, 2.5 x 1.5 mm, 167-36-24-17
- 3533 ♀ " JOW # 130 102g inf. pl. scars 7 203-42-22.5-17.5
- 3534 ♂ " JOW # 128 97g fast, 4 x 6 mm, regressed 212-45-24-17.5
- 3535 ♀ " JOW # 131 89+g 210-49-24-17

Pipeline Rd., 1000 ft., 22 mi. NW Livingood, Alaska

Aug 29

- 3536 ♂ *Microtus xanthognathus* JOW # 132 111g fast, 5 1/2 x 3 mm: rt. ovis, s.v. 10 mm 216-45-24-18.5

Yukon Hand Rd., 3 mi. N Hess Creek Bridge, 1000 ft., 21 mi. NW Livingood, Alaska

Aug 28

- 3537 ♀ *Microtus xanthognathus* JOW # 127 100g inf.?: pl. scars 5 L + 2 R 212-45-24-18
- 3538 ♀ " JOW # 126 111g pl. ov. inactive, pl. scars 6 L + 6 R. 211-44-23-17.5

Palm Desert, Riverside Co., California

7/75 (Killed 29 Sept. 1976)

- 3539 ♀ *Dipodomys deserti* 45g no mts. (coll. by J. Solomon) 243-141-38-13

2 mi. NE Truchee (Highway 89), 5900 ft., Nevada Co., Calif.

Oct. 10

- 3540 ♀ *Perognathus later* DOR SKULL ONLY - - - - 119-54

Berkely (marina), Alameda Co., Calif.

Nov. 21

- 3541 ♂ imm. *Dendroica coronata* 14g coll. by K.P. Lidicker found dead

LIDICKER

1977

Yukon Haul Rd., 3.8 mi. N Hass Creek Bridge, 1000 ft., 22 mi. NW Livenood, Alaska

April 16 - coll. by J.O. Wolff

- 3542 ♀ *Microtus xanthognathus* JOW. 196 nullip. 33.5g 170-40-23-16
 3543 ♂ " JOW. 177 test. 7x4.5 mm. at. not vis. 38g 172-36-24-16
 3544 ♂ " JOW. 178 test. 8.5x5 mm. at. not vis. 48.5g 180-40-25-16

March 29 - coll. by J.O. Wolff

- 3545 ♀ JOW #168 SKULL ONLY " " parous, ov. inactive (w/ 1-2 c's) 48g 188-39-23-14

May 11 - coll. by J.O. Wolff

- 3546 ♂ *Microtus oeconomus* JOW. 191 test. 7x4.5 mm. at. just vis. 24g 144-31-19.5-10
 3547 ♂ " JOW. 192 test. 8x5 mm. at. vis. 27.5g 154-32-19.5-12
 3548 ♂ " JOW 198 flank gland 12x9 mm. test. 12x9 mm. at. vis. sv. 16 mm. xanthognathus 90g 205-45-26-18
 3549 ♀ " JOW. 200 flank gland 12x7 mm. sev. newly forming c.1. 63g 192-39-24.5-16

Feb. 6 - coll. by J.O. Wolff

- 3550 ? *Microsorex hoyi* SKULL ONLY coll. 2 miles (su over) guts mushy 1.92g 90-34-12-5

Gothic, 9500 ft., Gunnison Co., Colorado

July 8

- 3551 ♂ *Sorex* 4.7g. test. 4 mm. 105-42-13.5-7
 3552 ♂ *Chironomys* gulari 19.8g. test. 11x6.5 mm. at. vis: 2x 140-33-18.5-15
 3553 ♀ *Microtus montanus* BLK 29g. 7 emb. x 3 mm. 156-35-20-11

July 9

- 3554 ♀ *Microtus longicaudus* 38.3g. 6 emb. x 5 mm. test. 181-55-21-14
 3555 ♂ *Zapus princeps* BLK 26.9g. test. 6 1/2 x 3 1/2 mm. sv. 9 mm. 240-141-33-12

July 8

- 3556 ♂ *Eutamias amoenus* BLK 38.5g. test. 7x3 mm. 205-85-30-14

July 9

- 3557 ♂ *Zapus princeps* BLK 22.5g. test. 6 1/2 x 3 1/2 mm. at. not vis: 16 230-134-31.5-13
 3558 ♀ *Microtus montanus* BLK 31.4g. 9 all seen in 2 sections 172-47-19-12.5

Two mites from #3550 identified by Deane Furman
as Dolaps alacensis, a species normally found on microtine
rodents. So, possibly these could have come from some of the
microtus stored with the shrew, but no other mites were
noted on the microtines.

LIDICKER

1997

Gothic, 9500 ft., Gunnison Co., ColoradoJuly 8

- 3559 ♀ *Microtus longicaudus* 17.0 g no emb., horns 1 mm, wide
145-44-20-11
3560 ♀ *Eutamias minimus* 61.8 g 6 pl. scars, lact.
192-68-31-17

July 9

- 3561 ♀ *Eutamias minimus* 53.5 g 4 pl scars, lact.
225-98-33-15
3562 ♂ *Clethrionomys gapperi* 20.5 g test. 11 x 7 mm; at. visible.
142-38-19-15
3563 ♀ *Clethrionomys gapperi* 15.7 g hump, horns 1 mm, wide
129-35-19-11
3564 ♀ *Eutamias minimus* 45.7 g lact.?, faint pl. scars
213-89-31-16

July 8

- 3565 ♂ *Eutamias minimus* 39.0 g test. 6 x 3 mm, lusc.
208-94-31-16
3566 ♀ " " 54.4 g lact., faint pl. scars
211-90-33-15

Pipeline ~~Ed~~ Rd., 1000 ft., 22 mi. NW Livengood, AlaskaMay 23

- 3567 ♂ *Microtus* Lip gland large test. 9 x 5.5 mm; at. visible
40.3 g 166-40-20-12
3568 ♂ " Lip gland large test ~ 10 mm; at. visible
47.8 g 177-39-18.5-11

NW side Lake Minchumina, 1000 ft., Kantishna Lowlands, AlaskaMay 21

- 3569 ♂ *Clethrionomys rutilus* STOM. test. 12 x 8 mm; at. visible
30.3 g 142-30-18-13
3570 ♀ " " STOM. 7 emb., x 19 mm.
44.9 g 150-34-19-14
3571 ♀ *Microtus xanthognathus* flank gland 10 x 6.5 mm no emb., STOM. horns 1 1/2 mm, wide
73.0 g 195-43-25-18
3572 ♀ " STOM. flank gland 12 x 6 mm no emb., horns 1 1/2 mm, wide, faint pl. scars
79.9 g 200-40-25.5-18
3573 ♂ *Clethrionomys rutilus* test. 12 x 6 mm; at. visible STOM.
28.2 g 143-31-20-13
3574 ♂ " " test. 12 x 8 mm; at. visible STOM.
32.4 g 148-34-20-12.5

May 21-22

- boreal forest { 3575 ♀ *Microtus xanthognathus* STOM. flank gland 12 x 8 mm no emb., horns 1 1/2 mm, wide, possibly fresh cl.
79.8 g 195-41-25-18
3576 ♂ " STOM. flank gland 16 x 11 mm test. 12 x 8 mm; at. visible
107.0 g 224-51-26-17.5

LIDICKER
1977

NW side Lake Minchumina, 1000 ft., Kantishna Lowlands, Alaska

May 21-22

bird forest	3577	♀	<i>Microtus xanthognathus</i>	STOM. flank glands 10x5 mm; 10 emb, horns 1½ mm. wide	62.9 g	177-37-25-15
	3578	♀	"	STOM. flank glands 10x8 mm; 6 emb x 3 mm; 4 d. emb on rt. + 2 lt.	70.7 g	190-43-24-17
	3579	♂	"	STOM. flank glands 14x9 mm; test. 14x9 mm. at. visible	99.5 g	217-53-26-18
	3580	♂	"	STOM. flank glands 16x10 mm; test. 14x10 mm; at. visible	108.5 g	224-57-27-19.5
edge spruce forest	3581	♂	"	STOM. flank glands 12x8 mm; test. 10x8 mm; at. visible	69.6 g	187-42-25-15
	3582	♀	"	STOM. flank glands 11x6 mm; horns 2½ mm. wide; ov. w/c.l.	82.2 g	206-47-25.5-16
	3583	♀	"	STOM. flank glands 13x7.5 mm; 7 emb x 8 mm. 2d. 2d, 6 emb.	86.8 g	201-46-25.5-17
	3584	♀	"	STOM. flank glands 10x7 mm; diff. horns 2½ mm. wide, vag. ally	69.4 g	185-40-24-14.5
	3585	♀	"	STOM. flank glands 13x9 mm; 7 emb. x 11 mm.	84.7 g	200-47-24.5-16
	3586	♂	"	STOM. flank glands 19x10 mm; test. 12x8 mm. at. visible	97.3 g	224-53-27-19
	3587	♀	"	STOM. flank glands 9x5.5 mm; thin horns 2.5-4 mm. wide w/scar. flank vag. plug; ca's in left. ov.	74.9 g	194-41-25-16

May 21

grass	3588	♀	<i>Microtus xanthognathus</i>	STOM. flank glands 12x8.5 mm. (thick) horns 2.5 mm. wide ov. w/ fresh c.l.	80.0 g	206-46-25-17
	3589	♂	"	STOM. flank glands 13x11 mm; test. 13.5x9 mm. at. visible	97.6 g	213-51-26-17.5
	3590	♀	"	STOM. flank glands 13x7.5 mm; horns 2½ mm. wide; fresh c.l.?	77.4 g	200-42-25-17
	3591	♀	"	STOM. flank glands 12.5x7 mm; 9 emb. x 11 mm. (6R, 3L)	96.9 g	209-44-24.5-17
	3592	♀	"	STOM. flank glands 11x6 mm; 8 emb. x 14 mm. (4R, 4L)	99.6 g	209-47-25-17.5
	3593	♀	"	STOM. flank glands 11x8 mm; 10 emb. x 3 mm. (8R, 2L)	83.4 g	205-45-26-16
	3594	♀	"	STOM. flank glands 12x7 mm; 9 emb. x 3 mm. (4R, 5L)	83.7 g	210-47-25.5-17
	3595	♂	"	STOM. flank glands 13x10 mm; test. 13.5x8 mm. at. visible	118.3 g	227-52-27-18

Kensington, 200 ft., Contra Costa Co., California

Oct. 1 (flew into house + killed itself
against window)

3596 ♂? imm. *Vermivora calata* no fat

LIDICKER
1978

Tilden Park, near Jewel Lake, Contra Costa Co., Calif.

18 Feb. (found dead)

3597 ♂ *Scapanus latimanus* 71g. hole in neck test. 8x4mm. 202-35-21--

Yukon Haul Rd. 4 mi. N Hess Creek bridge, 1000 ft., 22 mi. NW Livengood, Alaska

20-22 May

3598 ♂ *Microtus xanthognathus* 81g. autot. no. 340 comp. SKEL. ONLY test. 12x8mm, S.V. 17mm, at. visib. 193-45-25-16

3599 ♀ " 94g. comp. SKEL. ONLY autot. no. 341 no emb. 189-40-24-16

3600 ♂ " 88g. comp. SKEL. ONLY autot. no. 344 test. 12x8mm, at. visib., S.V. 16mm 196-42-24.5-18

3601 ♀ " 64g. comp. SKEL. ONLY autot. no. 347 no emb, front ft. S.V. = 7; not lact. 185-38-23-17

Brusio, 280m. Poschiavo Valley, Switzerland

5 July

3602 ♀ *Mus poschiavinus* 60g. + SKEL., L., K., Ht., M. juv. nulliparus 153-73-19-13

Zalanda, 606m. Poschiavo Valley, Switzerland

5 July

3603 ♀ *Apternus sylvestris* 32g. + SKEL., L., K., Ht., M. 5 emb. x 5mm, lact. 202-98-22.5-16.5

Brusio, 780m. Poschiavo Valley, Switzerland

6 July

3604 ♂ *Mus poschiavinus* 15g. test. testis 7x4mm. + SKEL., L., K., Ht., M. 179-87-21-13

Caneet, 1400m. 3 1/3 km. S Poschiavo, Poschiavo Valley, Switzerland

7 July

3605 ♂ *Sorex* 6g. + SKEL., L., K., Ht., M. 115-42-13-5

3606 ♀ *Microtus* 31gms. 5 emb. x 10mm. + SKEL., L., K., Ht., M. 140-36-17-13

Zalanda, 606m. Poschiavo Valley, Switzerland

7 July

3607 ♀ *Mus poschiavinus* 24gms. 1st. Krotische x 5mm. 5 ment lact. + SKEL., L., K., Ht., M. 192-94-19-16

3608 ♀ " 17gms. has full fluid, parous + SKEL., L., K., Ht., M. 171-84-18-14

3609 ♂ " 10gms. test. 4x2mm, at. not visib. SKEL. ONLY + L., K., Ht. + M. 155-79-18-13

Lidicker, W. Z.

1975-78

Journal

LIDICKER
1975

Feb 8 - Went with family to Anzo Nuevo State Park
in San Diego Co. It rained off & on all day
& there was a strong wind from the W + SW. Arrived
at 0950. We saw quite a few elephant seals
on the mainland, although there was no fighting or chasing.
All were ♂♂ except for 1 adult ♀ + ~3 wk. old pup.
Also saw 1 large pup dead on the beach.
The ♀ + pup were associated with a lg ♂ who was
lying within 10 ft of them. Birds seen there:

Elephant Seals - 4 (park water)	Coast - 10±
Herring Gulls - ? - 4+ on ocean	Blk. Turnstone - 30±
Brown Pelican - 1+	W. Noddy - 30±
Pelagic Cormorant - 10+	Sanderling - 25±
Brandt's (possibly Double-cr.) Cormorant - com.	
Surf Scoter - 10+	Glaucous-cr. Gull - 15±
unident. Scoter - 25±	W. Gull - about
Ruddy Duck - 6±	Calif. Gull - 1+
Red br. Merganser - 2+	unident. gulls - about
Red-tl. Hawk - 1 juv.	unident. snail alcid - 1
Mourning Dove - 6±	Mourning Dove - 6±
Scrub Jay - 1	Scrub Jay - 1
Admiral - sev.	Admiral - sev.
Starling - +	Starling - +
Brewer's Blkbird - +	Brewer's Blkbird - +
Kestrel - 1	
Horned Finch - 300±	
Wh. cr. Sparrow - 30±	
Song SP. - 30±	

At 1230 we went to Pescadero Beach + Marsh. First
we stopped south of the creek to have lunch & for a
picnic on a partially isolated island. Then we
went to the main beach & walked around the lake to
the east of the highway & N. of the creek. Birds seen in
this area:

LIDICKER
1975

Feb. 8 cont.

Pied Bl. Grebe - 6+

resident. cormorants - many

G. + B. Heron - 1

Snowy Egret - 10+

Gadwall - 1

^{Green}
B-winged Teal - 6+

Cinnamon Teal - 12+

Shoveler - 15+

Ring-necked Duck - 18

Canvasback - 60+

Lesser Scaup - 15+

Com. Golden-eye - 1 ♀

Bufflehead - 2

Ruddy Duck - 30+

Wren-tit - 2+

L. bl. Marsh Wren - 1+ heard

Yellow-rumped Warbler (Myrtle type) - 3+

Yellow-throat - 1 song when sun came out briefly

Lark Sparrow? - 1

Wh. cr. Sparrow - 8+

lg. res. dent. hawk (prob.
= Rough-legged Hawk) - 1

Coot - com.

on
rock
point { Blk. Oystercatcher - 2
Blk. - bl. Plover - 1
Surf Scoter - 1
Blk. Turnstone - 15+

Willow - 20+

Sanderling - 5+

W. Gull + resident gulls
abund.

Glauco-winged Gull - 5+

W. Kingbird - 1

Tree Swallow - 30+

Violet-gr. Swallow - 10+

San Joaquin Co. Trip

Feb. 15 Went with family, Sheila Byrne + Ron Souse to one
of Sheila's squirrel study areas. Sciurus carolinensis has
become established in an area along the Calaveras River
in the vicinity of Bellota, & she is studying the ecology
of introduced squirrels in Calif. We left Ron + Sheila's house
in San Pablo about 0855. We entered the Co. W. of ~~the~~

LIDICKER
1975

Feb. 15 conts

Tracy on Interstate 580. Continued east of Manteca on Calif. 120. Then N. on Val Allen Rd. E. on Calif. 4 to Farmington + the N. to Bellota. Beautiful clear, sunny day, + not warm. After a quick lunch we started hunting squirrels while Neil + the boys fished in a nearby pond. At 12:06 I shot an adult ♀ (Ron + I working together). At 12:30 I killed another along the edge of a slough. Unfortunately, it rolled into the slough + sank like a rock. Ron wanted in to try and retrieve it but couldn't find it (the slough is quite deep + had a fairly good current in it). Shortly we saw 1 other squirrel. Later toward evening we saw 1 more; Ron had a shot at it but we didn't get it. Sheila got 1 ad. ♂. Neomi found a fresh road kill (ad. ♀) for a total of 3 squirrels. In mid afternoon, we went several miles SW of Bellota + set 6 live traps in areas where they could not get permission to shoot. Jeff caught a large black creeper from the pond.

Went to dairy farm near Escalon owned by a friend of Ron's (Tony Brazil) where we watched the cows being milked. Then we went to Tony's (+ his brother Joe's) house on Carrollton Rd. (between Lone Tree + Avenal) where we spent the night.

Feb. 16 Got up about 0715 + headed for Bellota with Ron + Sheila. It was clear + cold. Hunted for several hours. Ron + I got ⁽⁰⁸⁰⁰⁾ another ad ♀ squirrel (we teamed up on this one too, but he got in the fatal shot). Didn't see any other squirrels all morning; Except 1 ^{by} juv. ♀ seen running

LIDICKER
1975

Feb. 16 cont.

Across the highway when we drove into Ballote, & one other seen just as we entered the study area but did not get a shot at it. About mid-morning Ron & I climbed about 15 ft. into an oak near where we had parked to look in a hole ~~in~~ ^{that} we thought might contain baby squirrels. This was because the ♀ DOR found yesterday was recently post-partum. ~~to collect~~ ^{I could not} reach the bottom of the cavity, so we don't know if there were babies ⁱⁿ there or not. We took a walk around the walnut, cherry, & chestnut groves on the N. side of the highway - which were bordered by several ^{small} ponds. Then we went back to Tony's house, Naomi & the boys having just arrived, for breakfast-lunch (about noon).

During the morning, the wind increased steadily, & it was cold. Killed Skink skin squirrels & then went into Manteca for gas. About 1600 we drove back on the study area hunting. But the wind was so strong & it was so cold that the squirrels must have been very inactive. None of us saw any. At dusk we headed for home; Ron & Sheila will stay another night & hunt again in the morning. The live traps produced 1 ♂ squirrel giving us a total of 5 (+ 1 killed & lost). We took Calif. 26 to Stockton where we had dinner. Then Int. 5 south to Int. 205 to 580 & on home. Arrived ~ 2130.

Other mammals seen: mole - 1 heard & locust seen moving (15 Feb. in study area).

muskrats - several in pond & adjacent slough near study area; also burrows noted near where live traps set.

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1975

San Joaquin Co. Trip. Cont.

Tracks: raccoon, opossum (study area)

DOA jack rabbit; fresh gopher sign

Birds seen:

Pied W. Grebe - 2

Calif. Quail - 10+ (1 covey)

Gt. Bl. Heron - 1+

R. wt. Phalarope - 4 seen by RS.

Common Egret - 4+

Amv. Coot - 35+

Canada Goose - 1 flock of 50 flying N

Killdeer - 25+

Mallard - 6+

Com. Snipe - 1+5 by N12

Cinnamon Teal - 4

resident gull - 1

Ruddy Duck - 4

Rock Dove - 25+

T. Vulture - 2

Mourning Dove - 2 (different places)

WL H. Kite - 2+

Gt. H. Owl - 1 heard in area.

SL-skinmed Hawk - 2+

Belted Kingfisher - 1+

Red. tl. Hawk - 10+

Red sh. Flicker - 20+

Red-shouldered Hawk - 1 (Bullator) Acorn Woodpecker - 10+

Marsh Hawk - 20+

Downy Woodpecker - 5+

Sparrow Hawk - 50+

^{2 NUTTALL'S}
Copper-backed Woodpecker - 1

resident Flycatcher - 1 (Phoebe?)

resident p. tit - 1

Scrub jay - 30+

Loggerhead Shrike - 10+

Yel. fl. Magpie - 35+

Starling - 100+

Com. Crow - 15+

Orange cr. Warbler - 1

Plain Titmouse - 25+

Yel-margined Warbler - 10+ (incl.
1 det. Audubon type)

Brewer's Wren - 2+

W. meadowlark - 50+

Robin - 40+

Red-winged Blackbird - 30+

Hermit Thrush - 6+

Brewer's Blk bird - 100+

Golden cr. Kinglet - 1

House Finch - 1

Ruby cr. Kinglet - 45+

Amv. Goldfinch - 5+

(cont.)

LIDICKER
1975

San Joaquin Co. trip. cont.

Rufous-sided Towhee - 2+

W. cr. Sparrow - 50+

Brown Towhee - 1

Golden w. Sparrow - 40+

Oregon Junco - 25+

Lincoln's Sparrow - 1 (Bullata)

Total = 54 species

N. California Microtus Expedition

22 March - 26 March 1975

March 22

with Suk Y. Yang & David T. Krohn

After picking up Suk at his home, stopping by the museum to deposit & then picking up Dave, we finally left Berkeley about 8:00. It was mostly overcast & rainy, but occasionally the sun would come out. We took Highway 101 North. In Cloverdale, we stopped for a quick cup of coffee. Just before crossing into Mendocino Co., we could see snow on the Egeer Hills. Just N. of Cloverdale, just after crossing over the Russian River, we saw a fox squirrel DOR. S. of Laytonville we stopped for lunch at a roadside rest area. Snow was below the 2000 ft. level. Shortly before Leggett traffic stopped as there was a slide blocking the road 4 miles ahead & traffic was backed up. The flyman said a crew had been working on it for 3 hrs. already & he did not know when it would be cleared. So we took an exit to Leggett & then looked for the coast on Calif. 1 (also 208). At the Egeer elevations on this road it was hailing & snow partly covered the road. ^{Some *Neophila melanotus* feeding in meadow.} AT 17 mi. from Leggett by rd we came to a group of buildings called "Rockport Residence". Across the road was some flooded grassy area, a

LIDICKER
1975

March 22 cont.

We stopped to look for Microtus sign. There was a moderate amount. Vegetation included Carex, Rubus, Pilosus, a non-inj. glay, & a variety of grasses. Cottonwood Creek ran nearby. We went on to the coast looking for a dirt road going N. along the coast. Apparently it no longer exists or is blocked by a gate. Very near the ocean the road crosses Hardy Creek & then a small creek before starting ~~and~~ South along the bluffs. Within a half mile another small valley opens toward the ocean. Here we turned off the road & located more Microtus sign. There was an old house there with "Juan Creek" written on it. We set out a total of 46 traps there, all but ~~4~~ were Longworth's baited with crimped oats, rolled oats, & a little peanut butter; 4 traps were small non-collapseable Shermans set in pairs (back to back) in runways under boards. It continued to rain off & on. I picked up a Batrachoseps & took 2 more.

Then we drove 5 miles back to Rockport Beach & set out ~~the~~ a total of 76 traps (8 Longworth's & the rest large Shermans - mostly non-collapseable). We also found a dead mole in this locality. Finally we drove 0.8 mi. back toward the coast & pulled off the road to camp. We set 32 non-coll. small Shermans here - using same bait but without the peanut butter (in my case only). This was Douglas-Fir-Redwood Forest with rotten logs, ferns, etc., practically all steep hill-sides. This gave us a total traps set of 154.

LIDICKER
1975

March 22 cont.

Then we had dinner. Afterwards we discovered that our water tank was empty - even though Bob Jones had said he had filled it. Water field was. First trap site = $2\frac{3}{4}$ mi. N Rockport

2nd. trap site: $4\frac{1}{4}$ mi. W, $2\frac{1}{2}$ mi. S Loggatt.

Camp site: $4\frac{3}{4}$ mi. W, $2\frac{1}{2}$ mi. S Loggatt.

Bird list from San Rafael Bridge North:

Coronets - mixed. muller

W. Gull. Scaup.

Crow Ruddy Ducks

Lessard - 10± Golden-eye - 1

Egret - 1 T. Vulture - many

Swallows - 2 sep. individuals but ~~not~~ mixed. - 1 with Barn Swallow + other brown-backed.

Raven - 4 Mourning Dove (Kishner)

Stellar's Jay - 1 Osprey - 1

Walker sp. (Kishner) mixed Hawk - 1

Ruby-cr. Kinglet - 1 Chestnut-backed Chickadee

Wren - dit - 1+ Song Sparrow

Busk - dit - fresh. Flicker - 1

Coot - 20± Hermit Thrush - 1

W. Meadowlark - 3 Red wing - many

Brewer's Blackbird - many Starling - sev.

Oregon Junco - 15±

Got to bed ~ 2200!

March 23

Up at 0715. Weather varied from light to heavy rain all day. Picked up traps around camp. Dave caught a

L. DICKER
1975

March 23 cont.

Clethrionomys occidentalis. Suk + I did not catch anything although about $\frac{1}{2}$ of my traps were disturbed - either knocked over or the back opened. Had breakfast without the benefit of water. Drove to Juan Creek Tarpit (sign on bridge does say Juan Creek). Here we caught

9 animals below the road, 4 on road side +

3 more in little meadow below the waterfall - total = 16.

Took 4 photos of area. Then we went to tarpit at Rockport Ranch + picked up traps there. Both Suk + I lost 1 by SL. This was apparently removed by something. Catch:

Microtus californicus - 26 (not all moved from trap yet).

Reithrodontomys megalotis - 5

Peromyscus maniculatus - 1 Total = 32

Total catch for morning = $2 + 16 + 32 = 50$

Saw chipmunk run across the road between our campsite + the coast. Dead ^(long) fencepost at Rockport Ranch, also deer tracks.

Drove into Leggett. Only a little snow left along the road now. Bought a tank of gas + filled our water tank. Then discovered that our water pump wouldn't work. Took it apart, + not finding anything wrong, put it back together. On Highway 101, we had to wait for ~ 15 min. to get by 2 slides that had blocked the Highway. Drove to Eureka: stopped + bought a cheap plastic water jug for siphoning water from our water tank into. Continued N. on 101.

At Dry Lagoon State Park set traps around the entrance, including on banks of highway fill. Found

L. DICKER
1975

March 23 cont.

quite a bit of Microtus sign; many appear slightly larger & less distinct than those of M. californicus.

We each set 10 Longworths & the G. Stewards for totals of: WZL - 20, DK - 16, SY - 12 = 48 total.

Park rangers asked to see our collecting permit but were very friendly. Caught a Hyla regilla here.

(4-12)
Then we drove back S to where a marsh extended between the road & a large lagoon. Here we each set 14 G. St. for a total of 42 traps. Lots of Sylvilagus sign here & no doubt a lot of what may be Microtus sign. This gave us 90 traps out, & by this time we were all pretty wet. So we drove N. looking for a campsite. Took old State Highway Rd. around the E. side of a lake (few miles S. of Orick), & camped along side this road overlooking the S. end of the lake. Had our first real meal of the day, & the pleasant rain until just 2:00 pm.

Bird 1:50:

W. Grebe - 6±

Pied Bl. Grebe - 1

Gr. Blue Heron - 2

Scaup - 20±

Surf Scoter - 25±

Ruddy Duck - 2

Coot - 1

Killdeer - sev. (leaving)

Anna's Hummingbird - 5±

Com. Egret - 1

Pintail - 1 (DK)

Canvasback - 20±

Com. Merganser - 1 pr. (DK - GR R.)

T. Vulture - 25±

Red W. Hawk - 3

Sparrow Hawk - 15±

Willet Gull - few

Kingfisher - 3±

March 23 cont

Flicker - 10+

Com Raven - 6+

Downy Woodpecker - 1 (Dry Lagoon)

Crow - 10+

Violet-br. Swallow - 10+

Ch. bk. Cl. Lark - sev.

Robin - 30+

Audubon's Warbler - 8+

~~SE~~ Oregon Junco - 10+

Song Sparrow - 2+

March 24

The rain stopped briefly during the night & at one point we even had a glimpse of the moon. Today weather varied from medium to heavy rain all day & all night!!

After breakfast went to the Dry Lagoon traps. & picked up traps: Catch: Microtus - ^{Oregonus - 2, M. longicaudus - 8}

Peromyscus maniculatus - 2, Sorex - 1 (Krohn) ^{Reithrodontomys megalotis - 1}

Locality: Dry Lagoon State Park, 3 1/2 mi. S, 2 3/4 W. Orick.

~~Caught also 1 Hyla in the grass while picking up traps.~~

Then got traps at Big Lagoon (8 mi. S, 2 1/2 W Orick).

Catch: Yang - 1 Mic longicaudus & 1 P. manicul.

Krohn - 1 P. manic.

Lid. - 3 P. manic. & 1 Sorex.

We released all the Peromyscus except 1 of 2 in.

Then we drove N to the Kane Rd. turn off where we stopped & processed animals until ~1315. Had lunch & proceeded N. It was enjoyable going through redwood country in the rain. In Crescent City we got a tank of gas & then took US 199 toward Grants Pass.

Saw 4 elk in Prairie Creek State Park.

Continued through Collier Tunnel into Oregon. The

LIDICKER
1975

March 24 cont.

Water in the Smith River was a pretty light green color. We were carefully looking for possible places to trap Microtus but saw none. We even made an extensive side trip into The Siskiyou Natl. Forest (rd. just N. of Kesity). All the meadows we found were completely flooded and badly overgrazed; although we did find 1 ^{spot of} active sign. Continued N. on main rd. to 4 mi. S. of Selma. Here we found to ^{small} green valley running to east of rd. & as it was getting quite dark we set traps here in the pouring rain. I set 10 Longr. + 20 small SL; Dave 7 L + 8 SL + Suk 8 L + 10 SL for a total of 63 traps.

By the time we got through we were all soaked & cold. There were patches of snow all through the meadows. Microtus sign was undoubtedly easy to find. Very small mammals were in the vicinity of the stream & after dark were going up the slopes & under some shrubs. This made sense since the bottom of the valley was so flooded. We drove a short distance N. & off to E. on a dirt side road for ~ 1/4 mi. After almost getting stuck in the mud, we managed to back off the road & make camp for the night.

After changing to dry clothes & eating, we processed animals until after midnight, but skinned only the Green Creek catch so can now record the species composition of these 16 individuals: Microtus californicus - 5
Peromyscus maniculatus - 10, & Reithrodontomys myotis - 1.

LIDILKEN
1975

March 24 cont.

Still raining when we went to sleep.

Since it rained all day & mostly hard, we did not see too many birds, but here is the list:

Com. Loon - 1

Canvas back - 15+

Great Grebe - 2+

Scup - 20+

Pied M. Grebe - 4+

Bufflehead - 8+

Gt. B. Heron - 2

Ruddy Duck - 2

W. Grebe - 1+

T. Vulture - sev.

Sparrow Hawk - 1

T. Solitaire - 2

B. Kingfisher - 2

Stellar's Jay - 1

R. Sh. Flicker - 10+

Winter Wren - 1

Downy Woodpecker - 1

Robin - 20+

Red-sided Towhee - 1

Song Sparrow - sev.

March 25

Up at 0720 & it was not raining. Very cold - probably about freezing or below. Grass in meadows was still a bit frozen. Had breakfast & then went to get our traps, which as we eventually found out were at 4 mi S Selma.

Catch: Microtus townsendii - 6

Reithrodontomys megalotis - 2

Peromyscus truei - 1

Some of my traps had rivulets running through them. We processed the morning's catch on the spot & 1 Microtus was missing & another dead. Started on again about 1130. Drove to Grant's Pass. 1.3 mi. S of Selma saw a Sciurus griseus DOR.

Took Interstate 5 S over Siskiyou Pass. The road was wet & with a little snow, but claims

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1975

March 25 cont.

Hot rained Drifts on the side of the road up to 5 or 6 ft. High. At jct w/ Calif. 96 we stopped in a rest area & had lunch. Strong wind & very cold.

Headed up Highway 96 toward Happy Camp, looking for Microtus habitat. In the village of Klammath River, 14.6 mi. from jct of old 99 with 96 we stopped to set some traps in a weedy meadow with blackberry along the edge of the river (across from a tavern). Set following traps:

DK - ~~4 traps & 2 sh.~~ = 6 Long.

WCL - ~~7 traps & 2 sh.~~ = 9 Long.

SY - ~~2 traps & 2 sh.~~ = 4 Long. ~~4 + 19~~ = 16 total.

Only very little sign here & we had to really look for first places for setting. Then we went on 0.6 mi. & stopped again (.6 mi. W Klammath River). Here we set

a total of 19 traps: DK - 4 Long. & 2 sh (small) = 6

WCL - 7 L. & 2 sh (small) = 9

SY - 2 L. & 2 small sh. = 4 total = 19

Then we continued heading W on 96. Most grassy areas were either mowed lawns or heavily grazed, we could not find additional trapping areas, except for a large meadow 1.8 mi. further on by Sportsman's Motel which might have been good but we didn't stop because it was so public. We rapidly got into snow & it got deeper & deeper. Eventually we turned back ~~at~~ about 7.5 mi. beyond Hanbury. In one place we stopped a day in the snow looking for runways but found only mud. Retired to Natl. Forest camp (Sarah Totten) $\frac{1}{4}$ mi. E of Hanbury. Here we

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1975

March 25 cont.

Parked + set out to find places to set traps in the vicinity. We did find a little Microtus sign, but not much. We concentrated on setting in areas where the snow had melted exposing some grass or brush cover near grass. The following were set (all non-collap. shrews.):

Yong - 7 s. + 8 lg = 15

Krebs - 5 s + 15 lg = 20

Lidicker - 13 s. + 17 lg = 30 total of 65

This gave us a total of 100 traps set all together.

By this time it was about 1800. We went out for yesterday's other hot dinner. Processed animals from Dry Legume Beach St. Park after dinner (2 of the Ar. longicauda were dead in the traps). Bird list for the day:

Can. Loon - 1 D.K. on River

Gt. B. Heron - 2

Canada Goose - 2 pairs along R.

Wood Duck - 5

Am. Merganser - 4

T. Vulture - sev.

Red. H. Hawk - 1+

unident. hawk - 2 (1 possible Red-b.)

Shore Hawk - 10+

Ch. Gt. Cl. Lark - 1

unident. wren - 1

Robin - 30+

T. Solitaire - 1

Ore. Junco - 50+

Killdeer - 2+ (H. R.)

Rock Dove - ² Grants Pass

B. Kingfisher - 1

Red. sh. Flicker - 5+

Lewis's Woodpecker - 7+

Violet-gr. Swallow - 15+

Scrub Jay - 2

Crow - 6+

Raven - 2

^{Hermit} ~~Shore~~ Thrush - 1

W. Meadowlark - 2

Brewer's Blackbird - 2

Fox Sparrow - 1

Song Sparrow - 6+

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1975

March 26

Got up 0720. Cold + partly cloudy with light snowfall. Picked up traps. Catch:

Microtus townsendii -

Peromyscus maniculatus -

Peromyscus truei -

Reithrodontomys megalotis

Sorex - WZL-2

2 P.m. coll. by Yang +
discarded (from Sarah Totten):

ad. ♂ test. 8 x 5.5 mm.
ad. ♀ no emb., 2 fully swelling
in 1 horn; wiff. med.; does not
not appear to be lact.

I never did find one of my traps on the slope above camp
in the live wood + swampy meadow with rock outcrops 4/
some brush + forest. Then we discovered that our water hose
on the camp was frozen, so we melted some snow for
coffee. Then looked toward our other 2 ~~traps~~ trapsites.
There was snow on the ground + along the edge of the road
to about Walker. Found all our traps at Klamm River +
.6 mi. W of the settlement. Catch:

.6 mi. W - Microtus californicus - WZL-2 + 1 found on ground
fence.

(see traps had been disturbed + perhaps this
individual had been in a trap)

Klamm River -

mic. calif - WZL-3, S.Y.-1, DTR-4

Reithrodontomys megalotis - WZL-1

It was 1055 when we headed for home. Lots of
Microtus habitat along the road sides between Yreka + Weed.
Snowing again as we approached Weed. But gas in Weed
+ crossed pass. Had lunch near Redding about 1330.
Continued south on Interstate 5. After four miles
N. of Maxwell in Colusa Co. we had a blow-out

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1975

March 26 cont.

(left new tire). It took us about an hour to fix it mainly because of difficulties in getting the spare tire off. The spare is smaller than the over-sized new tire that blew out, so we drove slowly (45-50 mph) for the rest of the way. Stopped in Vacaville for dinner. Got back to museum before 2000.

Bird list for the day:

Gt. B. Heron - 1 (K. R. river)

T. Vulture - sev.

Blk. cr. Night Heron - 3 (Albany)

W. H. K. R. - 1 (Sec. Valley)

Mallard - sev. prs.

sev. im. det. Hawks

im. det. fal. - 2

incl. 1 kg. one with yellow legs, light head & light windows in underbelly of wing

Shoveler - 1 juv.

Scamp - 10+

Marsh Hawk - 2

Amv. Merganser - 12 (4 seen of 2 ♂ + 1 ♀) - Klammath R.

Killdeer - 10+

Sparrow Hawk - 30+

R. Bl. Gull - 1 (Klammath R.)

Acorn Woodpecker - 1

Mourning Dove - 5+

Lewis Woodpecker - 2 (Klammath R.)

Yt-gr. Sucker - sev.

im. det. chickadee - camp.

Stellar's Jay - 2

Winter Wren - 1

Scrub Jay - 2

Robin - V

Yel. H. Magpie - 1

Horned Thrush - 2

Can. Crow - sev.

Starling - 2 (Sec. Valley)

W. Macgillivray - 15+

Evening Grosbeak - 1 (Castella)

Red-w. Blackbird - 5+

House Finch - 8+ (Klammath R.)
riller

Brewer's Blackbird - 200+

Oregon Junco - 20+

Song Sparrow - 6+

April 24 (1530) - 1 White-throated Sparrow seen in my backyard in Klamath Falls (light rain).

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Hull Mountain Trip

July 5 - Left about 1030 with family for Lake Pillsbury Ranch in Lake Co., Calif. Arrived there about 1430. Joined in 4th of July barbecue at Ranch. About 1800 we left to drive up to Hull Mtn. W. crossed Gravelly Valley & went E to Cabbage Patch & then up Boardman Ridge to Steve Smith's study area just S. of Timberline Camp on the S. slope of Hull Mtn. This is about at 5700 ft. We joined Steve in running his live trap grid for his studies of Eutamias sonoriensis. A few more miles camp just E. of the road.

July 6

Rather cool night but still flies & mosquitoes active most of night. After breakfast we packed camp & hunted chipmunks most of day at series of spots to N. Eventually we got as far N. as the jct. on the NW side of Bald Mtn. where a road goes W. to Thatcher Butte. Chipmunks were very scarce &/or very quiet. We eventually got 3 E. amoenus near Spruce Grove campground. I shot one & Steve got 2. Earlier we had lunch about $\frac{1}{2}$ mi. S of Monkey Rock & Naomi & the boys stayed there for the afternoon while Steve & I hunted.

In addition to hunting chipmunks, we also checked a number of wet areas for Microtus. There is a spring & small meadow just NW of Hull Mtn. Peak but I forgot to check it for

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July 6 cont.

Microtus. Just to the E. of our lunch spot there is also a spring with a small amount of M. sign. Then we checked Millers Spring and that at Spruce Grove, both of which had small amt. of M. sign.

At Spruce Grove there is a steady - spring with a running water like so one could fill water containers. Finally we checked a Spring on the W. side of Bald Mtn. Here the grass is badly over-grazed & we found only 1 M. runway. Found softer sign we saw at all these locations. Took 2 photos of Millers Sp., 1 of Spruce Grove & 1 at Bald Mtn. Left out a spring on NE side of Monkey Rock which also had some Microtus sign.

Returned to lunch spot $\frac{1}{2}$ mi. S of Monkey Rock where we set up camp (~6400 ft.). Fewer mosquitoes & almost no flies bothered us this time during the night. We set up a small tent for the boys.

July 7

Woke up to chipmunk alarm notes from a tree in our camp. Steve & I hunted for a few hours. I saw 5 chipmunks (large species) but could not get a shot at any. After breakfast Steve managed to get 1 ♀. Then we headed back down the mountain. Just W. of the road just at College Pk. we investigated a small cattail pond off to the S. side of the road & approached by a short dirt road. Found a few cuttings & possible old runways; took 1 photo. Then we

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1975

July 7 cont.

coyotes up into there again, & he showed us the
main College Patch meadow - $\sim \frac{1}{4}$ mi. W to S,
starting where a spring is located on the N side of the
road. This meadow is beautiful & several acres in
size. The vegetation is very diverse. Microtus sign
was present but scarce. There is also an isolated
smaller meadow just to the W. of the main one. Took
2 photos of main meadow & 1 of small one (which also had
M. sign). Saw a bird stand to claim note (E. Sonoran finch
W. of here; call was quite noticeably different from those at
campsite).
Returned to Lake Pillsbury Ranch where we ate
lunch & then visited with the Traver's ^(Martin + Katherine) (unit 4-4).

Then we had a swim at the swimming hole & left
for home ~ 1715 . Stopped briefly in Cloverdale for
a snack & gas. Arrived home ~ 2045 .

Mammals other than chipmunks & Microtus:

gophers - ubiquitous but fresh sign especially noted
in meadows & moister areas.

Blk-tailed deer - ~ 10 seen in all, including 1 doe
+ yearling & 1 doe + spotted fawn.

Callospermophilus - seen at several sites in the
Lake country.

Spermophile buckleyi - 1 juvenile sighting, Lake on
Borden dike, burrows at College Patch, & 1
seen on L. Pillsbury Ranch.

Sciurus griseus - 1 looking very pregnant at
L.P. Ranch.

coyotes - several scats seen at College Patch

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Hill Mon. Exp. cont.

beaver - scats ^{+ diggings} seen on Steve's study area.

Herp: Sceloporus - com.

Gerrhonotus (multicarinatus ? - ventral strips between
scales) - 1 lg. specimen - Lake Pillsbury Ranch

W. skink (blue-tail) - 1 College Patch

tadpoles in swimming hole at Ranch

NIL saw larger than snake at College Patch -

possibly Masticophis lateralis.

Birds:

Com Egret - 1 } Sonoma + Marin
Snowy Egret - sev } Cos.

Am. Mag. - 1 ♀ (Lake Pillsbury Ranch)

Turkey Vulture - com.

Red-tailed Hawk - sev.

Swinson's Hawk? - 1

Sparrow Hawk - sev.

Calif. Quail - 1 + Lake P. Ranch + fork. covey at College
Patch

Killdeer - 1 + Lake P. Ranch + sev. Sonoma Co.

resident. gulls.

lg. tern - fork. Caspian - near Richmond - S.R. bridge

Rock Dove

mourning Dove

Com. Nighthawk - 1 + high country

Rufous Hummingbird - 1 ♂ + sev. resident Selasphorus

resident. hummers - sev.

Red-sl. Flicker - sev. (various elev.)

Acorn Woodpecker - 2+ - College Patch & other places

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Half Mon. Expt cont.

"Red-br." Sparrow - sev.

White-headed Woodpecker - seen by Steve Smith + NIK but not by me.

W. Kingbird - 1 (Potter Valley)

Ash-throated Flycatcher - 1 (College Patch)

Black Phoebe - 1 (Gravelly Valley)

Eng: Lancer sp. - just Lammontii - com. at high elev.

W. Wood Pewee - sev.

Olive-sided Flycatcher - 1+ heard at high elev.

Violet-gr. Swallow - com.

Rough-w. Swallow - sev. along Salmon Creek

Barn Swallow - com.

Cliff Swallow - com.

Gray Jay - 1? being chased by W. Bluebird (high elev.)

Steller's Jay - many

Scrub Jay - 1+ (Gravelly Valley)

Can. Magpie -

Can. Raven - 1 (high)

Can. Crow - sev.

Mountain Chickadee - com (high elev. down to College Patch)

Black tit - flock (College Patch)

Red-br. Nuthatch - com. (high elev.)

House Wren - 1 reported by S. Smith ($\frac{1}{2}$ mi. S Monkey Rock)

Mockingbird - 1 (along ^{high} Pot)

Robin - many but none at high elevations

W. Bluebird - sev. (high elev.)

T. Solitaire - 1 (" ")

G. cr. Kinglet - 1 seen by S. Smith ($\frac{1}{2}$ mi. S. Monkey Rock)

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Hull Mtn. Exp. cont.

Starling - ✓

Orange cr. Warbler - 8+ (high elev.)

Nashville Warbler - 1 ($\frac{1}{2}$ mi. S. Monkey Rock)

Yellow Warbler - 2+ on Steve's study area

Audubon's Warbler - 20+ (incl. ^{fledgling} juv. being fed)

House Sparrow - ✓ (along highway 101)

W. Meadowlark - many

Red-w. Blackbird - com.

Brewer's " - com., esp. Potter's Valley

Bullock's Oriole - 1+ (College Park)

Br.-headed Cowbird - sev.

Blk-headed Grosbeak - sev. (high to mid. alt.)

Pine Siskin - 1+ (high elev.)

Am. Goldfinch - sev.

Green-tailed Towhee - com. (high elev.)

R.-sided Towhee - 1 (near Gravelly Valley)

Oregon Junco - com incl. fledglings (high elev.)

Chipping Sparrow - many (high elev.)

Blk-chinned Sparrow - 2+ (N. side Mt. Hull; ~6200 ft.)

Fox Sparrow - com. (high elev.)

Lincoln's Sparrow - com. in high elev. meadows

Song Sparrow - vic. Gravelly Valley

Alaskan Trip

22 July - 30 July

July 22 Left S.F. Airport 1025 on flight to Seattle;
ar. 1205. Left on Alaska Airline (Braniff
plane) at 1400; ar. Fairbanks 1640 after stop

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July 22 cont.

(2 hr. time zone change)
in Anchorage. Jerry Wolff & his wife Maureen
met me at the airport. Stayed at their home.

July 23

Steve West, Jerry, & I went to their study
areas N. of Fairbanks at the Wickham Burn (1971).
Went with Steve on his trap line. He had ~ 5
Chthonomys rutilus on his non-burn grid &
4 C. r. & 4 Microtus oeconomus on his burn
grid. Then Jerry showed me around his Shoveler
Lake study plot. Took several photos including
2 of a large red squirrel midden. While on
Jerry's grid, a heavy rainstorm hit & continued
about an hour. We got pretty wet before we ran to
a pickup & hopped in for shelter. The only birds
seen were Gray Jays, Sl. colored-juncos, & 2
flocks of m. larks flying over.

We returned to Fairbanks after taking a brief
lunch & visited at Jerry & Steve's office
(Dept. of Forestry) & at the Inst. of Arctic Biol.
Chatted also with Dave Klein, head of Alaska Corp.
Wildlife Unit. Met Dave Grigal of the Univ. of
Maine who has a student working on vegetation -
lake interactions. Also talked to Gerry Swartz in Biol. Bldg.
Dinner at Wolff's house.

July 24

Went to Univ. & then to Calif. Fish & Game Office
where met John Coady who studies moose. Arranged

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July 24 cont.

Wrote him to go flying tomorrow morning. Also
talked with Jean Ernest who works on ~~research~~
here on reproduction. At ~ 0900 we met George
West coming out of the Inst. of Arctic
Biol. (IAB). Then Jerry & I went to
Bonanza Creek Exp. Forest. We looked around
white spruce forest, including some clear cut &
selectively cut stands. Picked lush raspberries.
Then we went into the River Valley, across a black-
spruce & tamarack bog & along the edge of river.
Heard 2 red squirrels ~~along~~ near the river. We
examined a no. of squirrel middens in the white
spruce and none showed any sign of activity
(the first 2 corecrops were poor). The black spruce
bog had an impressive no. of birds - including rufous
white winged crossbills, 1 Lincoln sparrow, & 1 possible
Pine Grosbeak, and Hudsonian chickadees.

Got back to IAB about 1400. Told to
George West, Lou Stratton (on leave from U. South
Carolina & working on comparative hemipalm structure
in Microtus, esp. montanus & oconomus).
M. penn. from Montana has a double the white
Tanner Valley ~~pungent~~ have a single Hb), Larry
Duffy (asst. to Stratton & interested in M. xanthognathus)
& Peter Morrison.

Had dinner with Steve West & Doug Pengelley
at Wolff's. After dinner we went back

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July 24 cont

to lab + processed 3 Chukar nutlets
+ 1 M. oregonensis. Then we all went to
a school SE of town (Howling Dog; Malamut was
full up)

July 25

Jerry + I were at the small plane airport
at 0715 when we met John Coady + Dale
Hagstrom (grad. student at UA + does work w/
Fisk + Gene). We took off in a 4-seater
plane + tracked down 5 moose with radio
transmitters. We located all 5 but actually
saw only 2 of them. In addition, we saw
~ 6-8 additional moose. We ran into a
rainstorm + had to give up trying to spot
one of the moose. Flt over Tanana
Valley S + E. of Fairbanks. Returned to Fairbanks
about 0915. Went home to change clothes +
then went to Univ. Called Karl Schneider
in Anchorage to try to arrange for me to visit
the Fisk + Gene + talk to marine mammal people
there. Made return flight reservations + talked
to Jerry about his thesis research. After
lunch went to LAB + talked to Fred Dean
Petermann, + George West. Worked on
getting my seminar ready. Gave seminar from
1530 - 1700. Went to West's for dinner with
Dale + Carol Feist. George's oldest son Mark
(1974) was also there. Jerry lived in L's

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car so I could drive back to L's home;
got back ~ 2400.

July 26

Jimmy took me to look at one of his study sites
along Goldstream (NW. of town). This is an area where
rabbits live in willow & alder with almost no spruce.
Then we went to Dale Frisvold's home study grid
a few miles further. Here there is a beautiful birch
forest with some ^{white} spruce & extending into a black
spruce stand. We saw 1 snowshoe hare in the
mixed forest. Ground cover is dominated by Equisetum
sylvestricum & moss. Saw Green-winged Teal (5),
Solitary Sandpiper, 1 Robin, & a Raven on the way
back.

Went to the mustox farm on Yankovitch Rd.
& then to Gerry Swartz's house. He showed us
his Coturnix farm, his peregrine falcons (3 ad.
& 2 chicks which we did not see), several Gyrfalcons,
& a Goshawk. Then we sat on the porch & watched
the Golden Days Parade along 2-street. About 1400
we had a pizza for lunch. About 1700 Gerry &
Peggy Swartz came over to Wolff's for dinner.
Then we went to Alaskanland - Palace Saloon, &
to a play on the paddle boat, & then to the
Flame Saloon & home about 0200.

July 27

Slept a little later than usual. Got ready for

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July 27 cont.

overnight field trip to Hass Creek. Left lab ^(Steve West going with us) at 1140. Stopped at Fox north of Fairbanks to fill our water jug, - famous Fox Spring. Continued N. on Elliott Highway. It's about a 4 $\frac{1}{4}$ hr. drive to Hass Creek area (~21 mi. NW Livengood by air). It rained most of the way but began to clear up when we got there.

Several miles N of the Hass Creek Bridge there is a brown cone the tunnel is 1968 or 69. It is an area where Steve had found Microtus xanthognathus for the 2 previous years we set traps. Sign was abundant & we could hear the noise squeaking everywhere - on both sides of the road. We set 21 by Shermans traps (7 ea.) on the east side of the road (dry natural bait). About 12 mi. farther S we set traps along the edge of the natural forest. Here we set 19 by Shermans: I set 7 of these in a grassy area where there was a small amount of microtine sign (W side of rd.), but not M.x sign, & along the edge of the black spruce forest. Steve & Jerry set 6 ea. Then we each set 5 mus. species. I set mine in meadow on E. side of highway where there was sign of M.x. Jerry's 5 were in the forest. Then we went back to Hass Creek, crossed it, & set 5 mus. sp. each in a black spruce bog & 5 more in along the edge of a small bog lake (a few cuttings were seen in the latter area. Along the W side of the Creek are 2 ^{cottonwood} ~~poplar~~ groves. Here we set more mus.

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July 27 cont.

Species. I set 15 (10 on edge & 5 in forest), Jerry set 15 & Steve 10. A little to the N. of the Creek (~12i) we turned W up to the top of a ~~small~~ hill with a bald top because of quarrying. On way up hill we stopped in meadow space for a red set 5 more Mm. Sp. This made a total of 140 trap sets.

Before we began setting traps we had gone to the top of the hill & set up our 2 small tents, because it had been threatening to rain all the time. Now we had our dinner. At ~2115 we headed out to check on live traps. At the first site (2130-2145) (4.3 mi. N Hess Ck. Bridge) we caught:

WZL - 4 M. xanthognathus; SW - 3 Mx & JW - 2 Mx. All traps but 2 of Jerry's were reset. Lots of squeaking still in evidence, & sev. notes seen on both visits. At the 2nd site (3.8 mi. N. Hess Ck. Bridge), we caught (2200): WZL - Catheromys rutilus - 2 (live traps) & 4 micromys xanthognathus (snap traps); SW - 1 C.v. & 1 Mx in live traps & 1 micromys (prob.) oeconomus in snap traps; JW - 1 C.v. (live). All full live traps picked up & Mm. sp. re-set. Back at camp, saw a N. Shrike & took 2 photos of sunset at 2215. Got to bed ~2300 even though it was still light. Catch so far: 19

July 28

After breakfast, broke camp, & started out for

LIDICKER

1975

July 28 cont.

traps 0755. No rain during the night but was lot of condensation.

Picked up traps first in mature forest. Catch: 1 C.r. (WZL). At the 1st trap site: WZL - 4 M.x, J.W. - 2 M.x + 1 C.r., SW - 5 M.x (3 of which had died in the traps). Second trap site: WZL - 1 Microtus (?) oeconomus, 1 C.r. in live trap. In kill-trap: 1 M.o. + 3 M.x + 1 add. trap set off. JW (grass + edge W of rd.) - 4 M.o. + 1 C.r. in live traps + 2 C.r. in snags (+ 1 add. set off). SW - 3 M.x (1 dead) in live traps + 1 M.o. + 1 C.r. in snag traps (W of rd.). Thus the only M.o. taken at this site is E of the rd. Was the one I caught in the same meadow as M.x; photo taken of this meadow. In the ^{cottonwood} poplar grove: WZL - 3 M.o. on edge + 4 C.r. (1 on edge + 3 in forest). JW - 3 C.r. (cottonwoods) + 4 C.r. (edge). SW - 1 C.r. + 1 Sl.c. junco (forest). At the bog site: WZL - 1 C.r., SW - 1 C.r., + J.W. - 1 Sorex. We had nothing in our traps around the pond. Saw group of Bank Swallows over + around Hess Creek. Catch for morning = 49 mammals for a total of 68. Summary of catch:

<u>Microtus xanthognathus</u>	- 31	(20 alive)
<u>Microtus oeconomus</u>	- 11	(5 alive)
<u>Clathronomys rutilus</u>	- 25	(7 alive)
<u>Sorex</u> sp.	- 1	
	<hr/>	
	68	(32 alive)

Then we headed back for Fairbanks, arriving about

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1975.

July 28 cont

1330. After unloading the vehicle, Jerry & I went home, showered, & then on to MacDonald's for a hamburger. Then we went to the lab & started to process the live catch - getting plasma, RBC, liver, & kidney. We finished 18 & then went out to dinner at Stan West's & Susan Fison's cabin on the Goldstream Rd. We had an excellent dinner & stayed until ~2230. Went back to lab to feed the remaining 14 live animals left over from Susan's garden.

July 29

Jerry & I started out at 0645 for Mt. McKinley National Park. With a stop for gas it took us about 2 1/4 hrs. It was a beautiful clear day & the mountains were magnificent. We got a camping permit for Wonder Lake & so were able to drive into the Park instead of taking the shuttle buses. We drove in as far as Polychrome Pass, & then since it was almost noon, we turned around & headed back. Mammals seen in the Park:

Tamiasciurus hudsonicus - 1 DOB near headwaters

Spermophilus parryi - com.

Dall Sheep - 25+ (no ad. ♂♂ picked out)

Grizzly Bear - 8

Caribou - 3 ♂♂

Moose - 1

We also sighted 8 Golden Eagles, at least 7 of which seemed to be separate individuals. Got back to Fairbanks 1615. Great trip!

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1975

July 29 cont.

Went directly to IAB for chat with George West. Then talked with Bud Fay. Jerry + I then went to a souvenir ~~shop~~ shop in town previously stalked out by Maurice. Then home for barbecued moose steaks. Jerry had to teach a class from 1900 - 2200. I borrowed his car, went to airport to get my air ticket adjusted, & then went to INF lab. Steve + I finished processing the remaining 14 live mice, & then we packed all our ~~of~~ frozen specimens ($68 + 4 = 72$) in 5 lbs. of dry ice & then this box inside a larger one with styrofoam insulation. Back to Wolffs about 2300 for packing my bags; but ~ 2330. The box of specimens was placed in Jerry's freezer overnight.

July 30

Jerry took me to airport for 0810 flight to Anchorage. Took taxi to U.S. Fish & Wildlife Office (4454 Business Park Blvd.) where I had an appointment with Ancel M. Johnson who is in charge of research on sea otters. Had a pleasant & productive chat with him. He seems anxious to cooperate in getting ^{from} blood & tissues for us. Then I took a taxi to the Alaska Fish & Game Office (333 Raspberry Rd., off C St. just S of International Airport Rd.). Here I chatted with Don Caultkins who works on sea lions. He would like to cooperate in sending frozen tissues for analysis of dense structure. He then took me to the

LIDICKER
1975

July 30 cont.

airport, where I had a flight to Seattle at 1400.
The Seattle - S.F. flight was delayed 1 hr. so did
not arrive in S.F. until 2225.

Birds seen in Alaska:

Pied Bl. Grebe ? - 1 (Fairbanks)

Mallard - 1 ♀

Pintail - 1 ♀ (Mt. Mck. Natl. Park)

G. W. Teal - sev.

Scaup ? - 1 (Mt. Mck. N.P.) - not much white around bill

Golden Eagle - 8 (Mt. Mck.)

Marsh Hawk - 1

Willow Ptarmigan - ~ 15

Solitary Sandpiper - 5+

unident. juvs - 8+ (widely scattered singles)

Long-tailed Jaeger - 3 (2 ad. + 1 juv.) - Mt. Mck.

Herring Gull - 10+ (Anchorage) + sev. unident. by gulls
and Fairbanks

Rock Dove - Fairbanks

Blk.-backed 3-toed Woodpecker ? - 1 (1 solid-black backed woodpecker
seen nearby)

+ sev. unident. woodpeckers

Trill's Flycatcher - 2+

Olive-sided " - 1

Cliff Swallow - 30+

Bank Swallow - 10+

Barn " - 1

Gray Jay - many

Blk.-billed Magpie - 2 (Mt. Mck. N.P.)

LIDICKER
1975

Alaska bird list cont.

Com. Raven - many

Boreal Chickadee - sev.

Robin - 1 (near Ft. Yukon)

Amer. Pipit - 4 (Mt. McKinley N.P.)

N. Shrike - 1 (N. of Hess Creek)

Myrtle Warbler - 1 juv.

Pine Grosbeak - 2

Com. Redpoll - 25+

Wh-winged Crossbill - 15+

Sevenside Sparrow - 1+ (Mt. McKinley N.P.)

Slate-colored Junco - com.

Wh. cr. Sparrow - 3+ (Mt. McKinley N.P.)

Lincoln's Sparrow - 1 (log at Bonanza Cr. Exp. Fort)

Brooks Island Trip

Nov. 2 - trip arranged by Fort Bay Regional Plc. Dist.

Went with: Neil Havlik, Harry Reuss, Ross

_____ (geologist, U.S. Forest Service), Arnold

Schultz, Larry Heckard, Monty _____ (PR man

for district), George Cole & wife. Al Betancourt

took us out & back in two trips. Beautiful day.

Left 0800 & returned ~ 1430.

Microtus moderately abundant, & extending out
on spit to end of land, i.e. to rock jetty. Rat sign
abundant only around feeders. Saw 1 large gopher snake.

Bird list: W. Grebe - 25+

Gt. B. Heron - 6+

Brown Pelican - 25+

Snowy Egret - 2+

D. cr. Cormorant - 20+

Lesser Scaup - 20+

LIDICKER
1975

Brook Island - Nov. 2 cont.

Wh. w. Scoter - 1	W. Snow Plover - 3
Song Scoter - 20±	Killdeer 5±
Ruddy Duck - 10±	Blk. l. Plover - 40±
Red br. Merganser - 1	Blk. Turnstone - 15±
Wh. r. tailed Kite - 1 or 2	W. W. Tit - 25±
Red. t. Hawk - 1	Least Sandpiper - 1 or 2
Phoeasant - 15± (incl. 1 white one)	Dunlin - 200±
Coot - 45±	W. Sandpiper - 300±
Marbled Godwit - 5±	Mourning Dove - 1
Sanderling - 50±	Red sh. Flicker - 2
Glaucous-winged Gull - 3+	W. Meadowlark - 3+
Western Gull - 100±	Brewer's Blackbird - 2
Herring Gull - 10±	House Finch - 20±
California Gull - 10±	Wh. cr. Sparrow - 100±
Ring billed Gull - 15±	Golden cr. Sparrow - 1+
Bonaparte's Gull - 2	Song Sparrow - 30±
Heermann's Gull - 2+	(n=40)
Forster's Tern - 6+	

Hastings Natural History Reservation, Carmel Valley, Monterey
Calif.
w/ Mammal class 14-16 Nov.

Nov. 14 - Went down to Hastings with family. Patton & ^{mammalogy} class went into separate cars. Overcast - fog was
but clear from San Jose south. Helped students set
trap along Robertson Creek.

Nov. 15 -

About 1130 sat by Shavers with Dave Krohn for
Microtus. I set 19 collipile traps + Dave 18.

LIDICKER
1975

Nov. 15 cont

Mic. are moderately high in number. We set in meadows with brushy stump + Stipa to S of main meadow. Packed 50-75/acre. Lots of old sign, especially in meadows between I. & creek & in meadow from water tank to Calhoun line. These around grass meadows we riddled with old burrows, but fresh sign is scarce. Saw some stuff coming up but none in Stipa meadow.

1610 - on trap line. Two Mic in my traps & 2 in Dave's. Some Mic have been caught along Holestrom Creek - both near meadows along creek & in woods. Set 3 live traps with Jim Patton & close our stock pond just NW fence on Bloung's + property, near the water tank. Lured Jim took 1 Lasius cinerarius out of the nest. At last we saw half a dozen Myotis around the pond; I hit a net, but none was caught.

Nov. 16

Dave on trap line & picked up 3 more Mic from my line. Light rain for most of AM. At 10:30 we picked up the entire line & I had 1 more Mic. ~~This was a total of 8. Several others picked up at various traps with Mic from our line.~~ This gave a total of 8 from our joint trap lines. Walked with group (including Jeff + Ken) up onto oak-wooded Calhoun Line + Schellhorn Hill. Picked up three Mic traps on way back. Saw active Mic. sign in woods along Calhoun line. Also saw 1 Mic & some active sign in meadow

LIDICKER

1975

+
1976

Nov. 16 cont.

on way up L:11 to Calhoun L:11

A few birds of note:

Wh.-th. Kite - 2 (1 carrying something like nesting material)

Copier's Hawk - 1+

Red th. Hawk - 20+

Red. sh. Hawk - 1 (~ 10 mi. above village of Canal Valley)

Sparrow Hawk - 1 on Res., sev. other elsewhere.

Calif. Quail - abund.

Anna Hummingbird - 1

L. Shrike - sev. seen on route

Red sh. Flicker - com.

Starling - " " "

Acorn Woodpecker - com.

Wren-tit - sev.

Nuttall's Woodpecker - 1+

R-sided Towhee - 1

Black Phoebe - 3+

Say's Phoebe - 1

etc.

Wl. br. Nuthatch - 1

Heron: 7 Thrush - 1

Var.-ed Thrush - 2

W. Bluebird - com.

Ruby cr. Kinglet - 1

1 3/4 km. N, 1 1/4 km. W Colfax, 2200 ft., Placer Co., Calif.

Nov 18, 1976

Set 20 large Sherman live traps on property of L.J.

O'Brien & family. Traps were set specifically for microtus
& baited with dry oatmeal. Small mounds of m. sign found
around house & pasture fence & on edge of adjacent brush
& forest. Traps set in late morning. Household has
2 dogs & 3 cats, and 1 of the latter helped me find

LIDICKER
1972.

several fresh runways. So, I suspect predation pressure is heavy.

Jeff, Ken & cousin Tommy checked the traps several times in afternoon. One trap was removed, one caught a Microtus (within 1 hour of setting), & I was moved to the inside of a water pump housing where rodent activity was obvious. This left 18 traps out overnight.

March 14

Picked up traps about 1100. Trap in pump housing contained 1 Peromyscus boylii - looking ♀; it was released. All other traps were empty. But I was closed. Microtus was brought back to Berkeley & kept overnight again in the trap. On March 15 it was killed, blood, kidney & liver taken & skinned. (WZL#3507).

Alaskan Trip

24 Aug - 2 Sept.

Aug. 24 Left S.F. airport 1420. Stopover in Seattle.

Arrived Anchorage ~1800 (local time) & went to Anchorage Westward Hotel - reservation having been made by Arnel Johnson. (\$28/night "govt. rate").

Aug. 25 Went to U.S. Fish & Wildlife Service Office (4454 Business Park Blvd.) to visit with Arnel Johnson. Arrived about 09³⁰.

Visited with him until 1400 when he took me to the Alaska Fish & Game office (333 Raspberry Rd.) to see Don Calkins. Visited with him until ~1530 when his assistant Roger drove me back to

L. DICKSON

1976

Aug. 25 cont.

th. Hotel to pick up my luggage & then took me to the airport. Worked at airport, had a sandwich & then boarded a plane at 1900 for Fairbanks. Beautiful view of the Alaska Range; landed at 1950. Maurine & Jerry Wolff met me at the airport. Went to their cabin on the Gold Stream Rd. & chatted until after 2300.

Aug. 26

Jerry & I went to Inst. of N. Forsyth on University campus, & talked about our Microtus xanthognathus project & autopsied some rods from his last trip to the study area. About noon we left for the Wickström Down study area to watch the controlled burning of 3 small plots of black spruce forest. Took a number of photographs, & the lots of humbirds. Met Keith Van ^{Clear} of the Forest Soils Lab. at the Univ. of Alaska; he was at Berkeley in early 60's working with Arnold Schultz. Drove out & back with Dean Argyrakis who is forest manager with INF.

When we got back to the lab we talked with Stan West & Doug Pengelly. They have a breeding colony of M. xanthognathus at a site immediately adjacent to the control burn plots at Wickström. They also have Lemmus trimaculatus & a species of Microtus which I cannot identify: it is small & has a quite short dorsal tail. This plot trapped 2 yrs ago produced only M. oeconomus & C. rutilus.

In evening Jerry & I did some grocery shopping for our field trip tomorrow to Hess Creek. G. at the hotel after a shower at about 2245.

LIDICKER
1976

Aug. 27

Got up 0730 & we went to airport to pick up Celia Hunter's (President of Wilderness Society) ^{car} who lives in basement of Wolff's cabin. Jerry went to Lot to pick up vehicle for our field trip. Back home we had breakfast & packed up. ^{New Fox saw 2 Sharp-shinned Hawk.} Left ~ 1000. About 30 miles out we had a flat tire & discussed 1) the tire would probably be the wrong size, & 2) the spare was nearly flat. The next track along the road Corral is a tire wrench so we could change the tire. Then we drove slowly the additional 35 miles to Livingsport. The gas station had neither gas nor air so we went to Livingsport Alaska camp, & were able to not only get some air but got our flat tire fixed & well. The house on the study area at mile 28 on the Yukon Haul Rd.

Set grid the Jerry had been setting since May at mile 28 : 10 traps by 10; 5 m. between stakes. Set by collecting the Skunks using coned oats for bait; 1500-1600. Then from 1600-1615 set 10 more traps on an adjacent line S of grid, down stream, starting ~ 20 paces below trap T-7. When setting last 2 traps, heard m. x squeak for first time today. Heard many squeaks in next few minutes & several more on way back to road. Jerry set a similar line on N side of grid & 10 more on a newly grassy knoll.

Then we went to mile 27 (same area as set last year) & I set 5 by 5 ft. in a grassy area on S. side of Rd. (very little sign). Jerry set 5 in another grassy area

LIDICKER
1976

Aug. 27 cont.

on the same side of the road + 10 = the adjacent woods.
Then we set large rod traps in low grassy area on N.
side of rd. (When we had caught both M.x + M. pennsylvanicus
last year). Finished this about 1700. Then drove to
mile 28 $\frac{1}{2}$ + off to S on side road which goes up on
a knoll to a quarry + supply depot for Alyzka. Then
we set up camp on the edge of the cleared area.

It was a beautiful clear + ~~very~~ warm day.
As we were eating we could see a rainbow + small
rain storm off to the E looking over bay. Mosquitos were
notably bad in the woods + around our camp. There were a
few plus lots of gnats and a large number of some black
beetle which insisted on flying to us + crawling over us.

2000-2110 Ran grid + lines N + S of it. Caught
11 M.x + 2 C.s on grid + 2 more M.x on each of
the assessment lines. The last 4 were brought back to
camp. On the newly found knoll there was 1 more M.x. -
this last was marked + released, + the trap reset. As it
was getting dark we decided ~~not~~ not to check the traps
at 27 mi. Instead we went on to the pipe road
itself + about opposite the old trapping area (Steve
West's camp) we each set 5 rat traps (one group
on each side of the pipe. Rat traps were baited with
peanut butter + a few oats. Returned to camp.

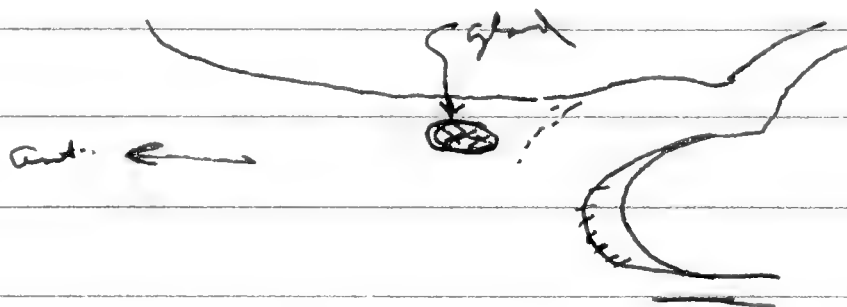
Saw a hard snowed Red Squirrels during the day.

Got into our sleeping bags ~ 2245.

L. DICKSON
1976

Aug 28

Set up about 0650, & hiked for our traplines.
Checked grid 0715 - 0800. In the 10 net traps at 27 mi.
we got 2 M.x + 1 C.r.. Live trap records on shoulder.
Lastly we checked the 10 net traps along the ~~the~~ path
road (pipeline). I had 2 M.x + 2 C.r. + found 2 more
M.x. Back to camp we cooked breakfast, & then
autopsied the 9 dead mice. The "hip gland" -
M. xanthognathus is really a post. flank gland, but
sometimes extends over the ant. edge of the hip. Sketching
the dissection is 1 ad. ♀ - dorsal view.



We left the carcasses out on a log when we left.
1245 - Set 5 lg. SK. traps on each side of rd. at
26.1 mi. in order to catch additional Microtus for
tissue & blood samples. At 1255 set 6 lg. SK. at 27 mi.
marker, S. side of road - grassy area. 1300-1320,
I set 5 lg. SK. ~~on~~ = grassy area on S. side of rd.
when there was lots of M.x signs & squeaks. I set
3 lg. SK. on N. side + 2 on S. ~~side~~ ^{we} also set 5
net traps along a moist creek bottom - ~~the~~ same area.
Returned to camp for lunch. All had 3 b the noon
carcasses were gone & 3 gray jays were working hard
on the remaining 3. They were very effective at

27.8 = [
microtus
marker

L. DICKSON
1976

Aug. 28 cont.

standing on the carcasses & pulling off ~~the~~ chunks of meat.

At about 1500 we headed out again and at 1515-25 set 5 more rat traps along the feed road near old business line. Ran the previously set traps then a walk, re-baited etc., moving several to nearby locations. Caught 1 ad ♀ C.r.. Jerry also set 5 more rat traps on other side of pipe, ^{caught 1 M.x. - 2nd date then.} Took several photos of the pipe & 1 of the heliotax along the trapline.

1540 - Set 5 more rat traps ~ $\frac{1}{2}$ mi. further S along feed road. 1550-1605 - checked 4 trap lines & re-set at 27 mi (Hwy is really at ~ 27.5 mi.). Nothing is caught but saw. Thryx caught = line trap. 1605-1715 - checked traps on growing Knoll near grid while Jerry set our last 5 traps = grass nearby. Ran grid & moved radically every trap into a new location, checked, baited when needed etc. Ran N census line which was skipped earlier. Got back to camp ~ 1725. Jerry & I autopsied the 2 dead mice from the feed road line, while I wrote some notes.

Total of 219 traps set.

Had dinner, & then at ~ 1915 headed for trapline. Went to farther one at 26.2 mi. point first. ⁽¹⁹²⁰⁾ In my 5 Sh. & had 1 M. oeconomus which I picked up to bring back alive. Jerry had 1 C.r. in his which he released, & re-set the trap. At the 27 mi. marker we had ⁽¹⁹³⁰⁾ 2 ad. M. xanthognathus - both ♀♀. These were killed for autopsies. Then we went to

2

LIDICKER

1976

Aug. 28 cont.

our new site at 27.8 mi. (1935). I had 4 M.x, 2
subad. were released + I kept 1 ad. ♀ ^(#3533) + 1 subad. ♂ ^(#3532).

The latter 2 were killed for autopsying. Jerry had 1 ad. ♀
M.x (killed for autopsy) + 1 C.v. (caught at 1940 +
released). The 5 net traps had 1 ad. ♂ M.x ^(#3534).

Checked grid 1950-²⁰10. Caught 1 small ad ♂
which we had not yet caught this trip. Also checked
ammunt line of 10 to S. Returned to camp.
Turned in about 2200.

Aug 29

Got up 0650 + had breakfast. Picked up grid 0800 -
0850 including ammunt line. Caught 21 mice on grid.
In 10 Sh. on nearly spring knoll had 2 M.x, 1 M.o +
1 Mustela erminea. The weasel ^{was} ~~spelled~~ like a wild
skunk. We let it go so as to not interfere with the
study area. In Jerry's 5 net traps near the knoll, there were
2 M.x.

0920 - picked up traps at 27.8 mi. In the 3 Sh. remaining
of the 5 set, there were 3 M.x, all subadults + so released.
The 5 net traps were empty although 3 were sprung. In
Jerry 4 of remaining 5 Sh., ^{was} ~~was~~ 1 C.v. (released).
At 26.2 mi. traps: W26 - 4 Sh. - nothing

Jow - 5 Sh. - 1 M.o (w/pen) + 1 C.v.

#3529 → (released); the Microtus was caged but later
died

At the 27 mi. marker - 4 Sh. traps - nothing

0945 - 27.5 mi. : 10 rats - 2 M.x (including ^{ear tag} #1068)
4 add. traps were sprung.

LIDICKER

1976

Aug. 29 cont.

10 SL. in forest - 1 C.r. (mostly eaten)

10 SL. in grass - nothing

Traps along feed road:

W2L-10 rats - 5 Mx, 1 C.r. (mostly eaten) +

1 Gray Jay.

JOW-10 rat traps - 2 Mx

Lead 5 rat traps (W2L) about $\frac{1}{2}$ mi. further S.:

1 C.r. + 1 snuffed trap. Finished

digging up traps at 1025. Then we went back to camp to pack up. Left ~ 1130. When we went by the grid we stopped to take photos. I took 5 on grid. Weather has been clear & mild during whole stay, although rain squalls have been seen frequently in the distance.

Yesterday evening + early this AM a jacket was mailed.

Birds seen in the Hens Creek area:

Raven - many

Gray Jay - many

Boreal Chickadee

Sl. c. juncos

Myrtle Warbler

Rusty Blackbird - 1 (Livergold)

heard woodpeckers twice but saw none

Varied Thrush - 2

Rough-legged Hawk - 1 (dk. ^{thru})

Haw^{on} | Red H. Hawk - 1 (all blk. except
Hawk | tail lighter brown on top +
sl. lighter ventral wing
linings)

Sh.-sh. Hawk - 1

Tree Sparrow - 1

Redpoll? - 3

On way back to Fairbanks we went through several rain showers starting in Livergold. Stopped in quarry on way so Jerry could fire his rifle + adjust the sights. Got 6 loads of gas in station 4 mi. W. of Livergold.

LIDICKER
1976

Aug 29 cont.

Got back to Fairbanks ~ 1600. Went to lab to unload station wagon & then returned to a party in the woods across the street - organized by ^{Fred} Dean family & Liz & Bill Barry. Also met Fisher ^{Univ.} & Mrs. & Mrs. Sweet & Terry & Les ^{Q. Erick}

Jerry & I left & went to set traps for Microtus 1900-20 Set 20 Sh. in "T-field" - experimental plot of the University ~ 1 mi. SW of the campus. Ground in which we set was within a strong fence which would keep larger animals out. The grass was 1 - 1 1/2 ft. tall & contained a moderate amount of sign. Runways & tracks to be indistinct but piles of feces were frequently noted & some cuttings.

1930-40 Set traps directly below the University campus ~~along~~ in grassy area along the railroad tracks. I set 16 & Jerry 10. Total traps was 46.

Aug 30

47°F.
After breakfast: Jerry & I set out to check on traps. 0835 "T-field": I had 3 M. oeconomus & Jerry 1 (full traps - none).

0855 - traps along railroad: W2C - 2 Microtus junco-sylvaticus (1 may be oeconomus) & 1 dead one.

JUN - 1 live M. penn. & 1 dead one. Road trap w/ dead mice. Worked in lab at Dept. of N. Forestry getting blood samples of the ^{live} Microtus caught 22:30 AM & the 1 M. oe. brought back alive from Hens Creek. Also autopsied dead mice brought back from Hens Creek.

LIDICKER
1976

Aug. 30 conts

Traveled to Stern West + stopped by to see
George West w IAB traps.

1610-25 - Back to "T-field" to reset traps.
Had 1 more M. o. in my line, leaving of 6 traps
in this old line. Set 10 more Skewers: Jerry set
15 giving now giving total of 40 traps there.

1645: Reilly track traps. Checked + we each set 1
more to make $15 + 10 = 25$. Nothing in traps.

After dinner we went to Ohta, near jet of Goldstream
+ Ballaine roads (~5 mi. N Fairbanks). Set
traps in a ~~grass~~ grassy area among birch trees with
lots of V. burman, rose, + pine wood. Was a
small amount of Microtus sign but it was difficult
to find because of the tall grass + thick litter.
I set 15 traps + Jerry 21 for a total of 36. Traps
setting 1930-2010. Saw 1 Sturnella Hawk
while setting traps.

Aug. 31

0815-30 picked up traps at Ohta (5 mi. N Univ. of Alaska,
Fairbanks, 550 ft.). I caught 2 M. o. + 1 C. r. (1 more
in end group of 5 traps). Jerry caught 1 C. r. The red-backed
voles were released. Beautiful sunny day; 49°F when we left cabin.

0900-0905 picked up traps along railroad tracks (Exp.
Farm, Univ. of A.). Catch: WZL - 3 Microtus

JOHN - 1 M. o. + 1 muscle r. xosa

Took photos of Exp. Farm from hillside below IAB. Then
we went to "T-field" (1 mi. NW Univ. of Alaska, 500 ft.).

LIDICKER
1976

Aug 31 cont.

Picked up traps (0915); catch: W2L - 1 M.O.

JOW - 3 M.O

Stopped to take photo of Smith Lake below the T. field
& part of the Univ. nature reserve. Had close look at
very bold red squirrel, & saw several others. Went back
to INF lab & I processed the 12 live animals (11 from
today & 1 from yesterday evening). It took until about
1315. Jerry went on errands related to his pending
hunting trip. Also talked w/ Peter Myers (just - from Banner) &
Steve West.

Went to Woods Center (studied min.) for lunch. Then
back to lab to leave note for Jerry. ~~Went to T. field~~ On
the way stopped at Bunnell Bldg (Biology) & chatted
with Gerry Swartz & Brina Kessel. Walked to
IAB ^(saw red squirrel) & talked to Steve MacLean (and younger son Andy)
and George West. Looked for Dale Guthrie but he was
in conversation so walked back to INF. Met Jerry &
we discussed M.O. data until ~1700, & then went home
to shower & change. Took Jerry & Marvyn out to dinner
at the Tiki Cove restaurant, & afterwards we went
to the "Bare Affair" - club on the E side of town.
Home about 2300, but Jerry & I talked to about midnight.

Sept. 1

Got up 0710 in order to go with Steve West
& help him run his traplines out on the Bonanza
Creek Rd. But, when he arrived at 0800 he explained
that the crew did not look good & that he had not set
any live traps for M. oregonus as he had planned.

LIDICKER

1976

Sept. 1 cont.

Because of lack of good habitat for them. So he discouraged me from going with them. Therefore I went into the lab with Jerry. We went to see Bud Fay & got some sea otter tissues from him & picked up some of Jerry's & Steve's clean skulls. Bud has the only domestic colony in Fairbanks, if not in all of Alaska. Then we talked with Don Hartbauer who runs the animal colony for IAB & he had lots of experience raising & handling Microtus xanthognathus. His records indicate a weaning weight of ~16 g, & he has had a few individuals live $2\frac{1}{2}$ to 3 yrs. He thinks ♀♀ do not reach really large size until $> 1\frac{1}{2}$ yr. old. Peter Morrison is using the growth data for his studies of growth & aging patterns. Bob Rowell who originally started this colony has the lot of data from it in Saskatoon.

Then we went to the Carnation Dairy for 6 lbs. of dry ice ^(\$5.10) & to the Safeway to get a styrofoam cooler (we got the best one which was damaged for 50¢).

Returned to lab to pack up our frozen rodents, which Jerry then took home to put in his freezer for keeping overnight. I talked with Ted Dryness (Director of INF) until about noon. Then Jerry & I went to Gary Swartz's office & went to lunch with him at the student union, along with one of Gary's former students (Alan) who works on raptors & has headed for Biology Marine Lab to work for Bob Riseborough.

LIDICKER
1976

Sept. 1 cont.

Worked with Jerry on L.S. Thesis until ~ 1500. Then
Maurice picked us up & we went home. ~~At~~ I borrowed
their car & then met Dale Guthrie - L.S. Officer at IAB
at 1600. We talked until ~ 1720. Guthrie is the
hymenologist - the Dude. I received L.S. Masters at
U. Ill. (~1957-58) & PhD at Univ. Chicago (1963) with
E. Olson. Then I went to buy two bottles of wine &
returned to meet Steve & Edna MacLean at IAB
at 1740. We went to their home ⁱⁿ the Yak
Estates to talk until 1910. Edna's brother was
there (Bob) & Steve & Edna's two boys - Steven & Andrew
(~ 6 & 5 years old respectively). Then I went to
George & Angelita West's home for dinner evening
~ 1920. Went home ~ 2210. Talked w/ Maurice
& Jerry until 2320.

Sept. 2

Flight left Fairbanks 0840 for Anchorage &
Seattle. Beautiful day; temperature 84°F at 0800.
Arr. Seattle ~ 1510 (Pacific Time). Flight from
Seattle to S.F. leaving ~ 1620. Arr. S.F. 1805.

Birds seen in Alaska other than in the Hars Creek area:

Pink H. Goshawk - 6+

Sawthill Crow - 45+

Baldpate - 10+

G. w. Teal ? - 10+

Kestrel - 2

Canada Goose - 75+ (most were probably Lesser Canada Geese
but I was sure w/ 5 within Will & my home
have Cackling Geese)

LIDICKER
1976

Alaska birds cont.

Sl. sl. Hawk - 2

Glaucous-winged Gulls - 20+ (Cook Inlet Anchorage)

Herring Gull ? - sev. Anchorage

Rock Dove - ~

Gray Jay - com.

Raven - com.

Boreal Chickadee - com.

Robin - 20+

Hylocichla sp. (Swainson's w Gray-backed Thrush) - 1

Yellow-rumped Warbler - com.

Wilson's Warbler - 1

Rusty Blackbird - 1

Sl. ch. junco - com.

W. Ground Sparrow - 2+

Fox Sparrow - 10+

Hastings Natural History Reservation, Monterey Co., Calif.

Nov. 12-14

Nov. 12

Went to Hastings with family + mammalogy class
+ Carol^{Ann} Patton. + Mark Hafner is TA. Divided class
into 3 groups and set out 3 Caldon lines. I took
group to ~~line~~ oak woodland line on Schellman Hill.
Then took a group to Redwood Creek area to set
additional traps. Packed the gear to adjacent ranch.
With Jeff + Ken, I set 4 ~~other~~ sets (only 1 with fresh
marks). We did not set but not because the stock
feed when we usually set was completely dry. It had
rained about 1" a few days before, + this was the first

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Nov. 12 cont. - Hasting.

significant rain of the season. Mark gave talk in evening about L's mother on Mojave Desert rodent communities.

While ~~driving~~^{driving} to Riverside along Cornell Valley Rd., we saw 8 Red-tl. Hawks + 2 Red shouldered Hawks.

Nov. 13

Ran Chaparral Cotton line with 2 students. There was a good catch, but no Leontideus:s. One trap at station no. 3 was missing; we looked down slope + found a old trap for some fruit's gone + set that instead. At Robertson Creek, the gopher sets produced 1 gopher. The trap + 2 then set 6 by Thomas along edge of chaparral down the road. Later ~~later~~ in the day, we set 9 more traps closer to the Station Headquarters. Spent evening talking + Davis's + Patton's.

Nov. 14

Picked up traps at Robertson Ck. One gopher set had a dead gopher mysteriously laying near the mouth. The 6 Thomas produced: 1 Neotoma, 1 Peromyscus truei (both of which were released), + 2 Reithrodontomys (taken home as pets) + 1 Peromyscus californicus (killed for skinning by a student). The 9 more sets caught nothing, but two were set off. Left for home ~ 1345. Saw Red-bell. Sapsucker on way out. Two Black Phoebe's had also been seen at the Station. Otherwise only common birds were noted; crows seemed more abundant than I had remembered them previously. 1 Perognathus calif. was taken: Chaparral line today; only one Peromyscus

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Nov. 14 cont.

boylei was taken by the group & this was a live
trap at Robertson Creek. Also on Sorex townsendii
was taken there. ~~Leucurus~~ Mark Hefner saw 1
offspring juv. Sciurus griseus in Meadon Canyon.

American River just above Sacramento Calif.

13 March, 1977

Took about $1\frac{1}{2}$ hr. walk along River ¹²⁰⁰⁻¹³³⁰ (Park side) - 5 with
NKL, JKL, KPL, Frachs (3) & Dorothy Marshall. Pkly cloudy,
pleasant day.

Pied Bl Grebe - 2

Herring Gull - some

R.-y. billed Gull - com.

Calif. Gull - many

Amr. (com) merganser - 4

Golden-eye - 25± (mostly ♀♀)

Mallard - 20± (mostly paired)

Cliff Swallow - 15±

Rough-winged Swallow - 2+

Violet-green " - 30±

Carle's Waxwing - 20±

Anna's Hummingbird - 5±

Flicker - 10±

Nuttall's Woodpecker - 2

Bewick's Wren - 2

R. b. Chickadee - sev.

Bush Tit - sev.

Plain Titmouse - 10±

Killdeer - 1+

Gt. Yellowlegs - 6

Spotted Sandpiper - 1

Kingfisher - 1+

T. Vulture - 2

W. Crow - com.

Scrub Jay - com.

Y. bl. Magpie - 10±

Mourning Dove -

Rock Dove -

Engl. R. Sparrow - sev.

Starling - com.

Black Phoebe - 2

R. cr. Kinglet - 1

Robin - com.

Brewer's Blackbird - 15±

Yellow-rumped Warbler - 10±

Brown Towhee - sev.

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March 13 cont.

House Finch - sev. Wh. cr. Sparrow - sev.

Oregon Junco - 10±

Lots of suckers seen in the River.

Florida, Georgia, & South Carolina Trip

16-28 April

April 16 - Left on overnight flight to Miami.

April 17 - Ar. ~ 0615 in Miami & visited FSL until

morning of April 20. Took brief walk in State Park on S. end of Key Biscayne.

April 20 - In rented car drove to Archbold Biological

Station near Lake Placid in Highlands County, Florida

Took the new toll road called Alligator Alley (continuation of Fla. 84 W. of Fort Lauderdale) across the Everglades (saw 1 3ft. alligator)

then Fla. 29 N to jct. W/ US 27 at Homestead. Before

going to Archbold, went to Lake Placid & lost a farm

when I got stuck in a sandy road. Took me 1½ hrs.

of hard work to get out. Went to Archbold Station.

Was greeted by Glen Woolfenden (of Univ. South Fla. in Tampa) & had dinner with him, Jim Layne, & other researchers

at station. After dinner, we went to Layne's house in

"suburbs" of Lake Placid for the evening. Stayed overnight at the Station

April 21 - After breakfast went out in the field with

Woolfenden & John Fitzpatrick (grad. student at Princeton working on tyrannids in S. America) to

see their Scrub Jay study area & meet many of their Jay friends. It was great (several photos taken).

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April 21 cont.

Mostly talked for rest of am. Also met Jerre Stallcup (also working on gags), David Worley (radio-tracking raccoons, student of Layne's at U.S. Fla.), Fred Louwer, & Wayne McDiffet (limnologist from Bucknell U.). After lunch drove around station with Jim Layne; talked to him until about 1600 when I left to return to Miami. Drove E. on Fla. 70 to Okeechobee & then took US 441 along E. side of Lake to US 27. It got dark just as I was getting into interesting looking Everglades country in Broward Co. Visited JSL at "Daystar" on Flamingo Rd. W. of Ft. Lauderdale, & then back to Key Biscayne.

April 22

About 1100 drove S. on US. 1 toward the Keys. Got as far as Windley Key before I turned around (1355). On way back continued N.E. on Key Largo to near N. end where toll bridge connects to new road to Florida City. Then back into heavy & slow traffic to Key Biscayne; arrived back ~ 1715. Went to visit JSL at Daystar arriving ~ 1945 & staying until 2005.

April 23

Left Miami airport 0920 for Atlanta & then on to Augusta, Georgia, where I was met by Mike & Irene Smith. They drove me in a rain storm to their home in Aiken, S. Carolina. Later that afternoon went to a wedding, the principals being two of technical staff at the Savannah River Ecology Laboratory.

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April 23 cont

I started to get acquainted with many of the laboratory personnel at the following reception. Played ^{ping-pong} in evening.
April 24

Went to picnic with Smith family (dau Mike W. - 18 yr. + Karen - 8 $\frac{1}{2}$ yr.), Neils _____ + wife (geneticist from Univ. Stockholm) + Ramona ^{Baccus} Beckhous (in charge of electrophoresis lab at SREL + MA student of Jim Foulk - Denver Univ. - worked on Peromyscus). Picnic was at new State Park which is an old plantation owned by former editor of Time-Life + before that famous S. Carol. family including a governor + senator; + now a historical park. It is located near Beed Island. Continued our discussions at Mike's home in the evening.

April 25

Went into SREL with Mike + he got me started talking with his group - particularly Dave Foltz (student of Phil Myers + R. Alexander, U. Mich) who is working on P. polionotus. We were well met by Tom Graham (works on heavy metals in fish). Went to lunch w/ J.B. Gentry at Dupont cafeteria on Plant. Afterwards "J.B. drove me around to see some of his study areas (he is currently working on harvester ants nesting) + the other sights on the plant - including the coal ash deposition area - where is studying Cd accumulation in some insect systems. At about 1600 Mike Smith (son) + R. Beckhous started out to drive to Columbia S.C. Mike had given someone there in evening + there was

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Apr. 25 cont.

to be reception for Lou in the evening. Had dinner with Mike, Mike, Ramon, & Ed Liu (biochemist at the Univ. S.C. who is collaborating with Mike on studies of biochemical variation in Typha).

At the reception (at home of Ed & Jeannie Liu - originally from Hawaii) met: John Dean (Assoc. with Marine Lab at U.S. Carol.), Wally Dawson (genetics of Peromyscus), Syd Craig (DNA hybrid. & see work on), who earlier had given a brief tour of Univ. campus), & Mike Feldman (biochemist & interested in ADH), & many others. Drove back to Aiken, arriving after midnight.

April 26

Mike & I headed for Athens, Georgia, & a visit to see Frank Colby & the Institute of Ecology, of which SREL is a part. Had lunch with Frank & Mike. Then toward the Inst., had long talk with Dick Weigert, & also two men from Forestry Dept. wildlife ^{staff} Larry Marchington & Jim Jenkins. Later ran into Debbie Booring formerly at S.F. St. Univ. (student of Bot. Brown's interested in modeling microtus cycles) & now grad. student of Bernie C. Patten - working in Okefenokee swamp. Had few beers with Mike & Weigert (John Avise did not show up), then a pizza, & we headed back for Aiken.

April 27

Went to lab where I worked on my seminar which I gave 1100-1210. After lunch at cafeteria, &

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April 27 cont. tour of the SREL's new building - almost finished,
Went out with Wit (field) Gibbons - herpetologist
(U. Alabama & Mich. State - student of Dr. Hensley).
Saw some of his study area & then went out on Paro
Pool (large reservoir used for cooling ~~but~~ hot water
effluent from nuclear reactors on Plant). I just a
few casts we got 3 huge large-mouthed bass attracted
to the area when hot water comes into the reservoir
(turned them over to someone studying the bass who
already had caught ~ 20 by stocking - all to be bled &
released). Toured large section of reservoir dam with
Becky Sharitz who is studying thermal ecology of the 2
species of Typha that occur in the lake. Wit took
Mike & I back to Smith's home where we had dinner
& cleaned house for a get-together the evening (Irene
left yesterday for a vacation on the beach). Talked
all evening until after 2300. The night day-long until
0115. Others from SREL ^{with} ~~who~~ ^{one} I talked to: Don

~~Smith~~ Smith (thermal ecology of Gambusia, formerly at Univ.
Montana where worked on hot flies with Lee Metzger, & knows
Steve MacLean ⁸⁵⁰⁰⁰⁰ & others from Barrow, 1970), Paul Johns
(works on deer at on S.R. Plant), Dave Nelson (thermal
program exp. development of amphibians & turtles), &
Bob Nestor (Mike's business manager).

April 28

Out to SREL with Mike. Drove to the cypress
swamp areas with him & Ramona ^(Baccus) for short birding trip.
Then to the "barbecue" for lunch, back to the lab

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Apr. 28 cont.

for changing clothes, & then Ramona took me to the
Augusta airport where I caught a flight at 1330
for Atlanta. Had to lay over & wait 1 1/2 hrs. in
Atlanta for getting non-stop flight to San Francisco
arriving 1800 Pacific time.

Birds seen in Florida: (April 17 - 23)

Pied bl. Grebe

Brown Pelican

D. cr. Cormorant

Great White Heron - 1 (~~between~~ Snake Creek between Windy
Key & Plantation Key - excellent look (photo taken); in
vicinity for comparison: 2 Amv. Egrets, 3 Snowy Egrets, 1
La. Heron, & 2 Green Herons)

Gt. Blue Heron (not seen on Keys)

Amv. Egret

Snowy Egret

Reddish Egret

La. Heron

Little Blue Heron

Green Heron

Yellow-cr. Night Heron - 1

unident. Heron (N. end of Key Largo) - studied at close range:

med. ~~heron~~ heron - all gray/brown (light), no streaks or
spots, legs & feet dark, & bill dark, large & slightly
decurved at tip; white or pale-yellow iris, reddish
brown crown, densely with a crest, light ~~for~~ forehead,
about size of snowy egret but heavier build & bill

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Fla. bird list cont. (April 16 - 23)

large rooster. Could this be some form of red-crowned
black hen?

White Ibis - 35+

Least Tern

Florida (mottled) Duck

Royal Tern

Shoveller

Rock Dove

Lesser Scaup

Mourning Dove

Red br. Mangrove (Lake Okechobee)

Ground Dove

Turkey Vulture

Mangrove Cuckoo - ?

Black Vulture

(heard only)

Swallow-tailed Kite - 2 (Alligator Alley)

Red. sh. Hawk

Smooth-billed Ani - 2

Osprey

seen on separate

Bob-white

occasions along roadside
downed to be

Florida Gallinule

Smooth-billed sp.

Coot

Chuck-wills-Widow

Semipalmated Plover?

Nighthawk

Killdeer

Yel. sh. Flicker

Black-bellied Plover

Pileated Woodpecker - 1

Ruddy Turnstone

Red-bellied Woodpecker

Willet

Downy Woodpecker - 1

Greater Yellow-legs

Gray Kingbird? - 1 (1 ly.

Least Sandpiper

flycatcher seen near St.

unident. jaeger

White Heron, but did not
get good look at it)

Black-necked Stilt

Crashed Flycatcher

Herring Gull - all imm.

Tree Swallow

Ring-billed Gull - all imm.

Barn Swallow

Laughing Gull

Blue Jay

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Fla. bird list cont (April 16-23)

Fla. Scrub Jay

meadowlark

Com. Crow

Red-wing

Fish Crow

Boat-tailed Grackle

Tufted Titmouse

Purple Grackle

Mockingbird

Red-eyed Towhee

Loggerhead Shrike

Cardinal

Starling

Prairie Warbler-4+ (keep only)

Yellowthroat

House Sparrow

total of 70 species.

Birds seen in South Carolina (April 23-28):

Killdeer

Red-bellied Woodpecker

D. cr. Cormorant - 1

Crested Flycatcher

Green Heron - 3+

E. Kingbird - 1

Wood Duck - 1

Blue Jay

T. Vulture

Com. Crow

Red. sh. Hawk - 1

Fish Crow

Bob-white - 1

Barn Swallow

Wild Turkey - 1 (S.R. Plant)

Cliff Swallow?

Coot

Purple Martin

Fla. Gallinule - 1

Tufted Titmouse

Mourning Dove

Mockingbird

Chimney Swift

Brown Thrasher

Belted Kingfisher

Catbird

Yel. sh. Flicker

L. Shrike

Red-bellied Woodpecker

Robin

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Small Carolina birds cont. (23-28 April)

Wood Thrush	Red-wing
Starling	Purple Finch
Red-eyed Vireo	E. meadowlark
White-eyed Vireo - 5+	Cardinal
Ovenbird	Blue Grosbeak - 2
Parula Warbler - 20+	R. eyed Towhee
Pine Warbler - 10+	
House Sparrow	

total = 4 species, including 18 species seen in Florida for total of 88 species for the trip.

Alaska Trip

19 May - 27 May

May 19 - Left Oakland airport ~1230 after getting ride to airport from George Poinar (Ent. Dept.), who came gave me some culture vials for nematodes that live in the leucogland fluid of microtine rodents. United Airlines to Portland & then Seattle. Left Seattle 1605 on Alaska Airlines to Anchorage & then Fairbanks. Arrived ~1900 (Alaska time). Jerry & Maureen Wolff met me at the airport, & we went to their home in "Dogpatch", actually the home of Celina Hunter & Jennie Wood. Talked & went to bed early.

May 20 - Went to Dept. of N. Forestry to ask Jerry notes that Jerry had caught on his last two trips to our study at Hesse Creek. While waiting for them to return I called Jim Estes in Anchorage to arrange for seeing him on the 27th. Also talked to Jerry. Anticipated.

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May 20 cont

Had lunch with Steve MacLean at the "Blue Marlin". Continued processing mice in afternoon. About 1600 went over to visit with Garry Swartz briefly & then back home with Jerry & Maurine. Got our gear together for trip tomorrow to Lake Minchumina.

May 21 - Went to Inst. in Am. & I worked on

typing responses to various NSF grant proposals, reviewing manuscripts, etc. At 11:30 went to McDonalds for lunch & then Maurine took us to the airport. Got Alaska Central Air flight (once per week) to Lake Minchumina. Flight took about 50 min. Trees were rapidly leafing out in Fairbanks but were in bud only at Lake M. Rode plane with "Blacky" (Blackburn) who runs hunting lodge at Lake M., but he was too drunk to get many details straight. Upon landing, we met "Kenny" who asked us what we were up to, & when we described the yellow-scaled vole to him he took us in his 1952 pickup truck about 1 mi. to the NW where the road ends at a US govt. relay st. A road went in a circular clearing of several acres. He said that large blackish voles were common in this area for the first time in the 36 years he has lived there. As soon as we got out of truck & looked around the building in the clearing we saw runways of Microtus xanthognathus & heard their characteristic calls. We started setting traps as soon as we could thank Kenny & send him back to the airstrip.

1500 - Set 5 rat traps in M. x runways around the building & 10 mus. sp. in what appeared to be smaller runways

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May 21 cont. - Lake Minchumina

in zone of open grass (presumably M. oeconomus).

1503 - caught 1 ad. ♂ M.x in one of the net traps.

Took our back packs and hiked down to the creek to the north. Lots of M.x signs around.

1520-35: Set 10 net traps on N. side of creek - bird forest & 10 net traps on S. side in mature black spruce forest - all M.x runways. When setting trap #4 in spruce I caught a ♀ M.x in net trap #2 (imperf. but skin on vagina severely broken). This trap was close to the stream.

1545-55: Set 10 more net traps (5 ea.) on edge of spruce forest (between trail & forest) - small spruce, lots of willow & alder, rose, etc. & lots of M.x signs, notes calling etc.

1600-1610: Set 15 mus. sp. (I set 10 & Jerry 5) in down bird woods to the N. There was no M.x sign here, but we wanted to sample that habitat. In the various M.x runways we noted cuttings of low bush cranberry leaves, Ledum, & grass.

1620 - Check traps in grass. Caught 2 ad. M.x (1 ♂ + 1 ♀); the ♂ was not near where the other ♂ was taken. We decided to try to trap all M.x out of this isolated grassy patch - about 1/4 acre. So we set 7 more net traps & surveyed and were to find extent of the M.x colony.

1650 - On the lake side edge of the clearing was a small grassy knoll with some old Microtus signs (prob. oeconomus) ^{+ possibly xanth. too}. Set 5 mus. sp. here. Then we walked through the woods to the east toward the lake. It was nearly dark, but we finally came out on the lake shore & then walked S. along the lake.

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May 21 cont. - Lake Michigamoo

We found the end of the runway & continued along the shore to a point where there was a small lake behind a gravel bar & directly opposite the two tall signal towers on the air strip.

1830 - Set 17 mus. sp. (10 song + on 17) in grass & willows behind this small lake - some M.O. signs but mostly old. Weather was mostly clear, cool, & beautiful, but squids not bad except around our camp & main trapping area where they were pretty thick.

Cut through woods to air strip & then walked along road back to clearing with relay sta. 1930 - Set 6 additional net traps in grassy area making total of 18 there. Total of 95 traps out. Checked 12 net traps previously set in grass & had 4 more (1945) M.x. - all ♀♀. In the 10 mus. sp. grass traps had 1 ♀ M.x. & 1 spring trap.

1950 - Checked 10 edge traps - 3 M.x. all ♀♀.

2000 - checked spruce & birch traps: spruce - 1 M.x. ♀ in #2 trap. & 4 Clethrionomys rutilus (all = M.x. runways & on = trap set by low brush coming by leaf cuttings); birch - 3 M.x. (1 ♂ + 2 ♀).

2115 - checked 15 mus. sp. = birch - nothing.

2015 - 2115 - Set up camp & had dinner. We camped by the stream because we needed water, but the stream was the color of strong tea, & had strange foam when it had little water falls. We drank it anyway.

2130 - checked 5 mus. sp. on grassy knoll - nothing. & some with 18 + 10 grassland traps. Also nothing in edge traps.

2145 - checked spruce & birch forest lines again. Caught 1 ♂ M.x. in birch. 2200 - hand trap set in edge line &

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May 21 cont. - Lake Minchumina

This was 1 more of M.x. Checked the contents of ~5 M.x with a camel's hair brush looking for nematodes. Found only 1 nematode & placed it in culture vial for George Poinar (UCB). Went to bed ~ 2200. Saw red squirrels & fair amount of moose & rabbit signs during our long walks & lots of birds (^{see below}). M.x. extended most of the way down toward the lake, but mostly in the vicinity of the stream. We also walked through a grassy meadow along the stream and it had small amount of M.O. signs. Lots of carnivore scats - fox & lynx signs: 1 fox-sized scat contained rabbit hair ^{& toe nail} & some Microtus hairs.

May 22 - Got up ~ 0700. - quiet parts of stream frozen over.

0715-0730: picked up traps around camp. Birch forest - 2 M.x (1♂ & 1♀); Edge - M.x - 2 (1♂ & 1♀) - W2C - 1 (1♀) - JOW Spruce forest & Mus Sp. line - only 1 shaggy trap - catch.

Packed up camp & hiked back to grassy clearing. Picked up all traps here (18 + 10 + 5); catch nothing (1 mus. spec. = grass we sprung but contained few bird feathers). Hiked back to airstrip. Saw 1 Snowshoe hare - quite tame. Stopped our packs in the woods & hiked down a subsidiary runway, heading to Lake Shore; then followed shore to north to our last trap line. Picked it up 1120 - catch nothing.

Total catch: C. rutilus - 4 - none spruce

M.x. ^{grasses} ~~anthracinus~~ - 21

(grass: 2♂, 4 ♀♀; spruce: 2 ♀; birch: 3♂, 3 ♀; edge: 2♂, 5 ♀).

Walked back to our packs near the runway, & had

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May 22 cont. - Lake Minchumina

a snack for lunch & rested awhile (1200-1300). Then we walked S along lake shore to see an area we had not yet seen & to look for M.x. signs. Passed Kenny's house & stopped to chat with him briefly. Then went on, found Blackie's to the husband of Jens & Helen Forsack. We stopped to talk to them & they invited us for coffee. Both are former schoolteachers & have daughter who just graduated in biology from U. of Alaska. They are building attractive hexagonal cabin & already have a small log cabin to live in temporarily. We learned alot about life in this community from them. However, they did not add anything meaningful to our knowledge of M.x. life history. ^{Described ecology nice fitting description of E.g. 10.5.} We then went back toward civ strip ~~along~~ along woods trail. Again talked to Kenny but learned nothing new. Got to civ strip just in time (~ 1715) to see Pat ^{Falkenburg (w/ Al & F. & S.)} land in a 4-seater Cessna to pick us up. The flight back was about 1 1/2 hrs. & the early part was at about 1000 ft. elevation so we could see alot & identify the ducks (in one case a pair of mallards) on the numerous lakes, ponds, & rivers we flew over. Saw 2 moose & 1 black bear. Landed in Fairbanks about 1830. ^{Cost of flight each \$31 + 5 tip = \$36} Went to Inst. N.F. to leave specimens, & McQueen picked us up to go home. Very tired, so to bed fairly early.

May 23 Up about 0730, & at 0900 Jerry & I started out for our study area at Bear Creek, on the pipeline land road. We made good time & arrived in the area by noon. It was interesting to see the progression

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May 23 cont. - Hess Creek.

of spring much backward as we drove north. Around Fairbanks, the leaves of the deciduous trees are just green and the trees have a definite greenish look.

Around Hess Creek, there is no green grass shoots & the deciduous trees are in bud only. Only the willows have catkins.

Set out our study grid 12:30-1:15^{+ 1 lg. live trap for martens}. We saw one Microtus xanthognathus but found none. 1345 - Set 10 lg. Sh. on grassy knoll near grid; saw 1 M. oeconomus & found a winter nest of same, & small amount of sign. 1400 - Set 10 Sh. (5+5) on 2 grassy knolls at mile ^{marker} 27.5. 1415-1435 - Set 10 Sh. & 20 net traps at mile 27 (M.x sign common here). Then at 27.8 mile, we set (1440-1513) snap traps on S. side of road (I set 12 nets & 8 mus. sp. = 20; Jerry set 15 nets^{+ 1 lg. live trap for martens}). On fifth line past road (opposite ~ mile 28) set: Jerry - 10 Sh. & 10 mus. sp.; I set 1 net & 19 mus. sp. Jerry saw 2 M.x here. 1605-35 - Set assessment lines above (N) & below (S.) of grid. I set 10 Sh. & 10 mus. sp. below grid with the latter starting ~ 22 m. from the grid edge (T-line). Jerry set 10 Sh. above the grid. On my way back to grid, I ~~had~~ heard my first mus. sp. go off & found I had caught M.x ♂ 1037. Also had seen M.x & saw out so activity must be increasing at this time.

Then we went to the x-roads (mile ~ 28.5) where Jerry keeps an Inst. trailer. We borrowed a pickup from Olga's car & pulled the trailer up on to their

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May 23^{cont.} - Hess Creek

→ storage area to the S. where we parked the trailer
(we have camped in this storage area last year) & returned
the p: trap.

1730-45 - checked live traps at 27 mi. + 27.5 mi. : 1 M.x
♂ at the first. Then checked grid traps. Returned to our
camp for dinner & some time to write field notes.

2210-25 : checked traps at 27 mi. Snap traps had:
Jung - M.x - 2 ♀ + 1 ♂ + 1 Wl. cr. sparrow. 2 had - 1 M.x ♀,
2 C. rutilus & 1 junco.

2230 : live traps at 27.5 - nothing

2235-2240 : snap traps at 27.8 mi. - Jung: M.x - 1 ♂, 1 ♀;
2 had : M.x - 1 ♂ + 1 ♀ + 2 C. rutilus.

2245-2330 - checked grid traps & ~~crepuscular~~ lines. Had
2 M.x (1 ♂, 1 ♀) - snap traps on S. side.

2330-45 - checked pad traps. 2 had M.x (2 ♂, 1 ♀), +
2 M. oregonus (?) - 2 ♂. Jung had 1 M.x (♀) + 2
C. rutilus. In his live traps he had 2 M.x which were
released.

We got back to camp just before midnight & got to
sleep ~ 0025. Weather was mostly clear & cold.
Mosquitoes were bothersome only in shaded places & mainly in
late afternoon. Sunset ~ 2300 was great with 360° of
colored sky. It was still quite light when we went
to bed, & it never did get dark.

May 24 - Rain during night turning to sleet & fog

The time we got up it was snowing beautifully. The
car windows were buried at least $\frac{1}{2}$ " - snow & it

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May 24 cont. - Glass Creek.

Was slushy on the ground. Air temperature must have been around 36-38°F. After a quick cup of cocoa we headed for our traps. 0730 - 0830 did the grid.

Nothing again in live traps at 27.5 mi. At 27 mi. picked up the live traps having caught the ♀ M.x. which Jerry had earlier injected with radioactive Zn to see if he could get the young tagged. There were also 2 other M.x., not processed (1 = ♀ imp., not virgin, etc., & the other an ad. ♂). 0845-0905: picked up all traps at road side. I had 2 M.x. (1 ♂, 1 ♀), Jerry had 3 C.v. in traps & 3 M.x. in live traps including 1 radioactive ♀ & 2 unmarked. We had earlier caught a third radioactive ♀ on the grid.

0930-1115: Had breakfast & broke camp, towing the trailer back down the hill, again with an Algonquin pickup. It stopped snowing when we were working on the grid earlier, & now occasionally showed signs of the sun breaking through the clouds.

1125-35: Picked up snap traps at 27 mi.: Jerry had M.x. - 2 ♂, 1 ♀, C.v. - 1 & 1 Junco.

1140: Picked up 10 sh. at 27.5 - nothing as before.

1145-1155: Picked up 35 traps at 27.8 mi. Jerry had M.x. - 2 ♂, 2 ♀ & 1 C.v.. I had only 1 ♀ M.x. (Note on ov)

1200-1230 - grid assessment line picked up & then the grid from 1230-1320. Snap traps 5. I grid caught only 1

Song sp. which was released as it was caught by the ^{minutes} _{2. M.x.} ^{had} _{possibly 1} ^{etc.}

May 24 - insert

When picking up traps at 27.8 w. I noticed a re-worked m. x tunnel (2 entrances & well-used runway) with a lot of old cranberries strewn around entrance. They were mostly broken & gave the impression of a winter store being cleared out & dumped at the tunnel entrances. They were bright red & not very dehydrated. No cranberries were seen otherwise on this trip.

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May 24 cont.

a few photos, & then started back for Fairbanks (1355). Cleared & got warmer & more spring-like as we drove back. Arrived ~ 1630. Unpacked at Inst., then Maurine picked us up & took us home to "Doffatch". Jerry & Maurine got changed & went to a party. I made myself some dinner & caught up on field notes.

May 25 - Jerry & I ^{~ 0900.} went down to the inst. ^{at} Told to Ted Dryness & went on to IAB to see George West; also talked over with Steve MacLean. Walked back to IAF. Jerry & I started to outcrag on Hess Creek valley about 11:30. About 12:30 went to Dairy Queen for quick lunch & back to outcragging. Finished ~ 1630. Maurine picked us, & in evening went to party ^{at} Liz & Bill Berry's. It was a good-bye party for Celia Hunter who starts as Exec. Director of the Wilderness Society in Wash. D.C. in early June. Met Herb Melchior formerly of San Diego St. U., & now free-lancing on mammals - Alaska - mostly on small mammals. Also talked to Fred Dean, Terry Viarek, etc. Liz has a great pottery studio & impressive work. Bill's stuff is great as usual.

May 26 - Jerry dropped me off at the entrance to the Univ. Arboretum nature reserve area ~ 0830. I hiked ~~for~~ until about 1130 getting back to the INF ~ 1145. We worked on the figures for our forest-cover paper on yellow-noise vols at the ASM meetings

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May 26 cont.

in East Lansing, and discussed the content of the paper. Weather is light rain to "Blue Marlin" for lunch. Revised figures for Jerry's paper on moose-Lake competition, & went over Jerry's PhD thesis ~~for~~ to consider revisions for publication.

Made a styrofoam lined box for carrying frozen specimens, & went to Canadian Dairy to buy 5 lbs of dry ice (\$1.25/lb.). Packed frozen specimens, mainly from Lake Minchuminee, for transport back to Berkeley. Went back to IAB to chat with Phil Gipsen, new staff member in the F&WS. Conf. Wildlife Unit. He will emphasize carnivores in his research while Dave Klein continues with ungulates. Encouraged Gipsen to look into relation between M.x. & martens. Also talked to Dave Klein briefly. Maurine's parents had arrived during the afternoon from Granite Falls, Minn. We all went to dinner at the Tiki Cove restaurant. Back home, Maurine, her mother & I walked over to Fred & Sue Dean's home (also in Dogpatch) & visited with them. Saw Sue's pottery studio - terrific. Also met their middle son who is also studying pottery. Visited also with Calie Hunter & Jennie Wood - in the south cabin the Jerry now lives in (her original of 3). Got to bed ~ 2315.

May 27 - Jerry drove us to the airport where we arrived ~ 0615. Light rain. Took 0700 flight to Anchorage arriving 0755. Call Jim Estes & he picked us up, & took us to his office. Chatted with

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May 27 cont.

Jim + Arnel Johnson until about 11:30. Then
down in boat to the airport where I got a 12:00 flight
to Seattle. About 2 hr. layover in Seattle. Flight to
Oakland ~ 1850 PDT. Arrived about 2035.

Bird List for Alaska - May 19 - 27

LM = Lake Minchumina; F = Fairbanks; HC = Hess Creek

Arctic Loon - 2 (sev. others heard) LM.

Red-necked Grebe - 1 LM

Horned Grebe - 10+ LM; 2 F

Whistling Swan - 5 LM + 2 in the muddy R. area (seen from the air)

Wh. fr. Goose - 2 LM

Snowy Blue Goose - 17+ LM

Mallard - 25+ LM, + F

Pintail - 40+ LM, F, + HC

G. w. Teal - 30+ LM; F 4+

B. w. Teal - 1 ♂ F (Univ. of Alaska park)

Baldpate - 35+ LM; 15 F; HC - 1 juv.

Shoveler - 1 juv. LM, 2 ♂ F

Redhead - 3 juv. LM

Canvasback - 15+ LM

Bufflehead - 1 juv. F

Lesser Scaup - 40+ LM, 20+ F

Greater Scaup - probably also at LM but not definitely identified

Old-Squaw - 10+ LM

Surf-Scoter - 20+ LM; 20+ F

Common Scoter - 1 ♀ LM

Sharp-shinned Hawk - 1 (rd. from HC.)

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Bird list May 19-27 Cont.

Rough-legged Hawk - 2 HC seen (1 lt. & 1 dk phase)

Bald Eagle - 3 ad. & 1 imm. LM

Pigeon Hawk? - 1 near HC.

Sparrow Hawk - 1 F

Ruffed Grouse - 5+ LM

Willow Ptarmigan - feathers, droppings & sign of winter feeding near airstrip & LM.

Sandhill Crane - 3 F

Semi-palmated ^{Plover} ~~Sandpiper~~ - 6 (incl. 2 nests w/ 3 eggs ea) LM + 2+ F

Black-bell. Plover - 2 F

Spotted Sandpiper - 1 LM, 3+ F

Lesser Yellowlegs - 30+ LM; 10+ F

Pectoral Sandpiper - 20+ LM

Baird's Sandpiper - 2+ LM, 3 HC

Least Sandpiper - 10+ LM; 1 F

Semi-palmated Sandpiper - 2 LM; 15+ F

Dowitcher - 10+ F

N. Phalarope - 1 juv. F

Common Snipe - 2+ (also heard & saw winnowing); 1+ F

Long-tailed Jaeger - 15+ LM

Herring Gull - 1 LM

Mew Gull - 25+ LM; 3+ F

Bonaparte's Gull - 3 LM

Arctic Tern - 4+ LM

* Hawk Owl - 1 HC

Yel.-throated Flicker - 10+ LM, HC; F

Hammond's Flycatcher - 25+ F

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Bird List 19-27 May cont.

W. Wood Pewee? - 1 LM

Tree Swallow - $40 \pm$ LM; $25 \pm$ F

Violet-gr. Swallow - 1? HC; 1+ F

Cliff Swallow - $25 \pm$ F

Brown-backed Swallow (purple Bank) - 1+ F

Gray Jay - $10 \pm$ HC; 8+ F

Com. Raven - $10 \pm$ LM; $10 \pm$ HC; 6+ F.

Blk.-cap. Chickadee - $5 \pm$ LM

Amer. Robin - com. F, LM, HC.

Swainson's Thrush - $40 \pm$ F; $5 \pm$ LM, $12 \pm$ HC

Gray-cheeked Thrush - 5+ LM

Ruby-cr. Kinglet - 1 LM, $10 \pm$ F.

* Bohemian Waxwing - 7 LM; 2 hr. HC; 10 F.

Orange-cr. Warbler - 2+ F + 1? LM

Yellow Warbler - 20+ LM; $15 \pm$ F; 2+ HC

Myrtle Warbler - 10+ LM; 5+ HC; $15 \pm$ F.

N. Waterthrush - 5+ LM

Wilson's Warbler - 1 F + 1+ LM.

Rusty Blackbird - $20 \pm$ LM; 2 F.

Com. Redpoll - $10 \pm$ F; $5 \pm$ LM

Savannah Sparrow - 2 LM

Sl.-col. Junco - com. LM, F, HC.

Tree Sparrow - 2+ LM Wh.-cr. Sparrow - com LM, HC, F

Fox Sparrow - com. F, LM, HC (1 nest w/ 4 eggs)

Lincoln's Sparrow - 1 singing ♂ LM

Total 20 species + sev. ? ones + ptarmigan sign.

Two species were "life birds" = *

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East Lansing Trip - with family
11 June - 12 July

June 11 - to Coffey, Calif., Jr. 1910

June 12 - Drove to Beatty, Nev. (Hank's motel)

552 mi. from home.

Birds seen Reno to Tonopah:

Red-tailed Hawk - 2

W. Kingbird - 3+

Yellow-headed Blackbird - 15+

Horned Lark - 20+

Red-winged " - 50+

Common Teal - 2+

Brewer " - 20+

Shoveler - 1 pr.

W. meadowlark - 2+

Gallinule? - 5+

B. billed Magpie - 10+

Eng. Sparrow

W. bk. Raven - 2

Starling - 1

T. Vulture - 2

Rock Dove

Killdeer - 1

Also at least 6 Ammodramophilus leucurus were seen.

(W. of Tonopah car overhauled with subsequent loss
of power - blew diaphragm - fuel pump.)

June 13 - Beatty to Williams, Arizona (Thurston Motel)

369 mi. Spent considerable time in Las Vegas

trying to get car fixed, & eventually succeeded in
getting new fuel pump for on '68 Saab (Russ at 710
S. 1st St.)

Birds seen Beatty, Nev. to ~~bottom~~ E. of Kingman,

Arizona:

Horn Sparrow

W. bk. Raven - 4

Phainopepla - 1 (Beatty) Swainson's Hawk? - 1

Sparrow Hawk - 1

Prairie Falcon? - 1

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June 13 cont.

Desert Sparrow - 5 (nr. Boulder Dam) W. Meadowlark - 1
unident. Hummer (small, white belly)

Starling - 1 (Las Vegas) W. Kingbird

Rock Dove Burrowing Owl - 1 (E. of Kingman)

Mourning Dove - 4+

H. Lark - sev.

June 14 Williams, N. to Grand Canyon, east on road to Canyon, then to Flagstaff & finally Gallup, New Mexico: 362 miles. Motor running on 3 cylinders until S of Canyon ^{when} we discovered one spark plug lead was shorting out to block, ok after that. Birds seen Williams to Winslow, Ariz:

Nighthawk - 2

Mourning Dove

Wh. nk. Raven - 20±

Violet-gr. Swallow - 40±

Wh. necked Swift - 30±

* Virginia Warbler - 1 (edge of Grand Canyon)

Mt. Bluebird - 2

W. Kingbird

Pinyon Jay

Plain Titmouse - 4

Canyon Wren - 1 heard

W. Meadowlark - 1+

Cowbird - 8+

Brewer's Blackbird - 2

House Sparrow

June 15

Gallup, N. Mex. to Texhoma, Okla. (Golden Spur motel)
473 mi. Overhunting climbing out of Albuquerque; otherwise car ok. Birds seen:

W. Kingbird

W. Meadowlark

House Sparrow

Starling

Wh. nk. Raven - continued to see through Tex panhandle

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June 15 cont.

Swinson's Hawk - 1

Nighthawk - 1

Mourning Dove

Brewer's Blackbird

T. Vulture

Red-wing

H. Lark

Barn Swallow

Loggerhead Shrike

E. Kingbird? - 1 Tex. Parula

June 16 Tex. Lake, Okla. to Cameron, Missouri

549 mi. Birds noted:

Burrowing Owl - 3

Swinson's Hawk - 2

sev. unidentified hawks including 1 which looked
like a large dark falcon.

T. Vulture

Killdeer

Upland Plover - 1 (Kane, Turnpike)

Red-headed Woodpecker - 2

W. Meadowlark

Red-wing

Scissor-tailed Flycatcher - 4

Lark Bunting - 1 pr.

Barn Swallow

Cliff Swallow

Chimney Swift

E. Crow

Purple Grackle

Robin

Belted Oriole - 2

Starling

House Sparrow

Mourning Dove

W. Kingbird

Black Phoebe

E. Bluebird

Cowbird

Bob-white

N. Thr. Hawk

Gt. Blue Heron - 1 (N14)

June 17 Cameron, Missouri to Milwaukee, Wisc. -

600 mi. Hit heavy rain storm near Chicago.

Went to home of Dave & Mary ~~and~~ Palmer - Milwaukee,
arriving about 2030. Birds noted during day:

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June 17 cont.

Chimney Swift

Robin

Brown Thrasher - 1

House Sparrow

Catbird

E. Crow

Starling

Spencer Hawk

Gt. Blue Heron - 3 (NIL)

June 18

Visited with Palmers; the NIL + I flew to Lansing, Michigan (North Central Airlines), leaving Milwaukee 1650 & arriving 1855. Don Christian picked us up at the airport & took us to the dormitories at Mich. State Univ.

June 19 - 23 American Society of Mammalogists meeting - East Lansing. Naomi left early in the morning of the 23rd to drive to Chicago with the Bryan Glass's to see the King Tut exhibit at the Field Museum. I flew back to Milwaukee in late afternoon. Naomi's brother (Hikaru) drove her to Milwaukee that evening arriving about midnight.

June 24

Visited with Palmers in Wauwatosa, got minor repairs (oil pressure gauge) on car, and visited Milwaukee Museum. Only birds of note: Cardinal, House Wren.

June 25 - Left with Palmers in late morning, & headed N for their cabin on Lake Superior near Ontonagon, Michigan. Their cabin is a few miles W of Ontonagon, ~ 1 mi. past the Potato River. Arrived in time for dinner.

June 26 - 29 - Vacationed on Lake Superior.

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Visited copper mine near Chardron, canoed up the
Potato River, & next small River to west, etc.

Birds seen in this vicinity (25-29 June):

Common Loon - 1	Chimney Swift - 10+
Green Heron - 3	Ruby th. Hummingbird - 2+
Belted Gull - 1 juv.	Yel. sh. F1: crow - 15+
Red br. Nighthawk - 2+	Red-headed Woodpecker - 1
Sparrow Hawk - 1	Yel. bel. Sapsucker - 2
Incident. Turkey - 1	Downy Woodpecker - 2
Killdeer - 1+	E. Kingbird - 1 + 1 dead
Upland Plover - 1	Crested Flycatcher - 3+
Spotted Sandpiper - 10+ incl. eggs	Phoebe - 6+
Herring Gull - 6+	Alder Flycatcher - 1
Canyon Towhee - 1	Least Flycatcher - 10+
Rock Dove - inc. Ontonagon only	E. Wood Pewee - 15+
Mourning Dove? - 1	Tree Swallow - 35+
Nighthawk - 5+	Barn Swallow - 20+
Cliff Swallow - 50+	Veery - 30+
Rough-winged Swallow - 2+	Cedar Waxwing - 10+
Purple Martin - 6+ (N. Wise.)	Starling - 10+
N. Raven - 2	Red-eyed Vireo - 10+
Com. Crow - 10+	Black & White Warbler - 5
B. c. Chickadee - 15+	Golden-winged Warbler - 1
Hairy Woodpecker - 1	Nashville Warbler - 1
Catbird - 3+	Yellow Warbler - 1
Robin - 30+	Myrtle Warbler - 10+
Wood Thrush - 6+	Chestnut-sided Warbler - 2

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June 25-29 bird list cont.

Ovenbird - 15±

Yellowthroat - 2+

Canada Warbler - 1 pr.

Amer. Redstart - 40±

House Sparrow - Outcrops of

E. meadowlark - 1

Red-wing - 12±

Baltimore Oriole - 4+

Total of 64 species.

Com. Grackle - 10±

Cowbird - 10±

Rose-br. Grosbeak - 4+

Purple Finch - 4

Amer. Goldfinch - 10±

Chipping Sparrow - 10±

White-throated Sparrow - 3

Song Sparrow - 15±

June 29 cont. - Left Palms at 1740, ^{mid} ~~late~~ 64 west +
south to Bergland ^{mid} ~~late~~ 28 to Wakefield + US 2 to

Duluth, Minn. ^{light} Stopped for dinner in Superior, Wisc.

Then drove on (Interstate 35) to Hinkley, Minn. before
= 247 miles for day.

stopping for the night. Birds seen from Palms to

Duluth (when it got dark):

Whistling Swan - 5 ad + 2 yg.

Wood Duck - 1

Kingfisher - 2

Amer. Goldfinch - 2+

cliff Swallow - ++

Barn Swallow - ++

Yellow Warbler - 1

Upland Plover ? - 1 (NIL)

Red-wing

Com. Grackle

Starling

House Sparrow

} vic. Ashland, Wisc.

E. Kingbird - 5+

Robin

E. Bluebird ? - 1 (JL)

Killdeer - 3+

Herring Gull - 2+

Com. Crow - 15±

Nighthawk - 1

N. Raven - 1

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Jun 30 - Drive into St. Paul, & visited neighborhoods
in which I used to live. Went to St. Paul campus of
Univ. of Minn. & after lunch looked up Peter Jordan
- wildlife, fishing & outdoors dept. Then went to
Minneapolis campus & Bell Museum where we visited
Elmer Bivney. Also saw Bud Tordoff & Ken Corbin.
Then we went to Lake Nokomis where we went for
a swim (almost 1800). Although it was chilly, it
seemed warm ~~by~~ after Lake Superior. Also watched
a half doz Black-crowned Night Herons fishing on the
lake - by flying over deep water & spearing fish while on
the wing. Legs dangled into the water occasionally, & several
successes were observed. None of the herons were seen to
land while we watched. Briefly visited Minnetonka Falls,
& then had dinner before proceeding to Bloomington
where we visited with Decker & John Bulov. (2000 to
~ 2230). Then we drove SW on US 169 to Belle
Plaine where we stopped for the night (Belle Plaine Motel).
Only 170 miles traveled this day. Birds noted today:

Robin

Black & White Warbler

Yel sh. Flicker

Red-eyed Vireo

Catbird

Green Heron - 1

Gt. Blue Heron - 1

Black-crowned Night Heron - 6+ (Lake Nokomis)

Sparrow Hawk

Com. Grackle

Starling, House Sparrow

Mourning Dove.

Barn Swallow

Tree Swallow

Night Hawk

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July 1 Belle Plaine, Minn. to Sioux City, Iowa, via
US 169, Minn. + Iowa 60. Then US 77 to Lincoln,
Nebraska, + Interstate 80 to Kearney, 499 miles.
(Shady Lane Motel);

Birds noted:

Barn Swallow

Robin

House Sparrow

Starling

Mourning Dove

W. Meadowlark

E. Kingbird - many

W. Kingbird - 1

Killdeer

Pheasant - 1

Dickcissel - com. in Neb

Bobolink - 1 (nr. ^{S.} Sioux City, Neb.)

Cliff Swallow

Belted Woodpecker - 1 (Minn.)

Sparrow Hawk - sev.

Franklin's Gull - 35+

Chimney Swift

Red-wing

Nighthawk - 1+

July 2 Kearney, Neb. to Boulder, Colorado: 484 mi.

Birds noted Kearney to Neb.-Colo. line on Interstate 76:

M. Dove

Com. Grackle

Starling

Robin

W. Meadowlark

House Sparrow

Unident. Hawk - 2

Swainson's Hawk - 2+

Upland Plover - 2

♀ Oriole - 1

Chimney Swift - 1

Killdeer

Yel. sh. Flicker - 1

Red-bellied Woodpecker - 3+

Common Tern - 2

Barn Swallow

Cliff Swallow

Tree Swallow? - sev.

Prairie Chicken? - 1

Also a coyote was seen between N. Platte + Ogallala,

July 2 cont.

+ 2 buffels were noted - a pair + 1 pair with cattle

From start line to Boulder noted:

Swainson's Hawk - 1

W. Kingbird

Franklin's Gull - 1

E. Kingbird

resident Hawk - 1

Starling

Barn Swallow - +

W. Meadowlark

Gt. Bl. Heron - 2

House Sparrow

Avocet - 15+

Red-wing

resident duck - 1 (prob. Cinnamon Teal) M. Dove

Took Denver 76 + US 6 to Col. 7 to Boulder

Stayed at home of Gene + Phyllis Smith.

July 3 - Visited Sally Tarron (Tarron tunnels) between

Golden + Arvada. Then (about noon) headed for Morrison

+ got on US 285 heading SW. Boiled over going up to

Kenosha Pass (10,001 ft.). Then US 50 to Gunnison:

boiled over only once climbing to Monarch Pass (11,392 ft.)

In Gunnison turned N on Col. 135 to Crested Butte

+ then on 8.4 mi. to Gothic = Rocky Mt. Biological

Laboratory (9500 ft.). Arrived ~ 1945 (162 miles today).

Birds noted from Boulder to Gunnison:

Blk. Mt. Magpie -

Brewer's Blackbird

Steller's Jay

Red sh. Flicker -

Turkey Vulture

Red-wing

W. Meadowlark

Robin

Red-tailed Hawk - 2

Plover sp. (prob. Mt. Plover) - 1

resident. lg. falcon

Barn Swallow

Gull sp. ?

Cliff Swallow

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July 3 cont.

~~Forest~~ Violet gr. Swallow - 1+

Meadow - 1 ♀

Brown-tailed Hummingbird

Talked with Dave & Ann Armstrong before moving into our cabin & then with John Holdren.

July 4 - Worked on lectures for course in Adv. Topics in Pop. Biol. Went to Crested Butte for Independence Day Parade, etc. Returned in afternoon & worked more on lectures. ~~At~~ Dinner at Holdren's cabin in eve. (with Paul & Ann ~~Holdren~~)

July 5 - Class 1-5 pm. & evening lecture to entire Lab. After party at Ehrlich's

July 6 - class 8-12 & 1-5. Explored area in S. Gothic (S. of Copper Creek) for possible trapping sites.

July 7 - Went to Lake Meridian N. of Crested Butte in am so our boys & Craig Holdren could fish.

After lunch explored with Jeff the slopes of Mt. Gothic on W. side of East River, especially looking for microtus signs. Due to the low snow cover last winter small mammal populations are very low, esp. Microtus.

Hibernators such as Eutamias minimus & Callospermophilus lateralis are abundant, however, & so is Eutamias, according to Dave Armstrong. We found a few winter nests of Microtus, & just a few instances of cutting. From 1615-1810 Jeff & I set out traps W of the East River. We set 22 lg. Sherman's in heavy grass for Microtus. The 8 now in more open brush some farther up the slope. Finally we set 15 mus. specials along the

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July 7 cont.

edge of willow thickets. Total of 45 traps ^{Live traps baited w/ dry oatmeal; traps with peanut butter.}

July 8 - Checked traps after breakfast (~ 0745)

Live traps: Microtus montanus - 1 (WZL # 3553)

Peromyscus maniculatus - 2 in brush grass (released)

Snare traps: Juffs 5 - Eutamias minimus - 1 (WZL # 3566)

Peromyscus maniculatus - 1

WZL 10 - Sorex cinereus - 1 (WZL # 3551)

Clethrionomys - 1 (WZL # 3552)

P. maniculatus - 3

Total catch = 10 Skinned the shrew and Clethrionomys with some members of the class looking on. After lunch, got blood & tissue samples from the Microtus using this as demonstration to 4 members of the class. Then had them weigh, measure, & autopsy the 4 dead P. maniculatus as class exercise, & turned specimens & data over to Bob Melton (member of class) from U. Chicago who is doing a special project on Peromyscus.

1530 - 1800 With Jeff, Ken, & Craig Holden went out on Juplines. Reset 22 lg. Shinnis - heavy grass. Set 2 mus. spec. - large root mass nearby, 3 for water shrews along a small stream, & 3 more in second large root mass. Picked up 8 lg. Sh. in brush grass; 1 trap held a Eutamias minimus (WZL # 3556); remaining 7 reset in nearby meadow which had a little better cover & a few cuttings were found.

Of 15 snare traps along willows, reset 5 of mine (caught 1 P. maniculatus), picked up 5 & reset 5 of Jeff's (they contained 2 Eutamias minimus & 1 subad. Microtus ^{(1 = WZL # 3560) + #3565})

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July 8 cont.

longicaudus (WZC #3559). Set 5 additional Mus. spec.
in the willow thicket + 5 in spruce forest. Finally
the boys set 3 Mus. spec. around the edge of a beaver
pond for water shrews. Then additional 5 animal
camps given total of 15 for the day. Then Jeff, Ken, +
I went 5 + set 10 Mus. spec. (peanut butter bait)
in heavy willow thickets along the S. side of Copper
Creek (just W. of the bridge). Finally we set 10 Mus. spec.
along the top of a ridge in S. Gothic (up the slope
to the east above an old corral) which had sage brush
scattered along it, ^{+ many the same spots.} I thought this might be a place to
catch a Peromyscus. This gave total of 80 traps
out (29 Shrews + 51 Mus. spec.).

July 9 Picked up all traps after breakfast (starting 0745).

Sage brush ridge - P. maniculatus - 2

Willows along Copper Creek - P. maniculatus - 4

Eutamias minimus - 1 (no. 3561)

Zapus - 1 (still badly clawed; WZC #3555)

22 live traps = Eutamias minimus - 2 (released)

Microtus montanus - 1 (WZC #3558)

Zapus - 1 (WZC #3557)

Microtus longicaudus - 1 (WZC #3554);

This last was dead in the trap - 1 of 2 live traps set

separately from the rest in area with many large logs, etc.

3 water shrew sets along stream - E. minimus - 1 (WZC #
3564)

+ other 2 traps were sprung

15 traps in + on edge of willows - P. maniculatus - 2

Additional mammals seen and Latic included
mule deer - 2

Microtus flaviventris - sev.

Martes americana - 1 caught - live trap by others

Ondatra zibethica - 1 (Meridian Lake)

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July 9 cont.

Chelonionomys - 2 (#3562 + 3563)

Other trap groups caught nothing. This gave total of 18 animals caught for day or 33 for both days.

Gave skinning demonstration for 2 members of the class (were #3554). Then NIL & I processed 4 live animals for blood & tissues. After lunch, skinned 3 more animals (#3553, 3559, 3560). Naomi & the boys did most of the chipmunk, I only sewed it up & pinned it out.

At 1515 left with John & Craig, Holden & Kelly (their "baby sister") in 2 cars to go to Emerald Lake (~10,500 ft) up road toward Schofield Pass. John & the boys fished (John caught 1 nice rainbow trout). Went into Crested Butte (1900) for dinner (Soup & on) with Holden's, Ehrlich's, & Bill Baker & wife (Bill is now chairman of Zoology at Univ. of Utah & formerly was at Univ. of Chicago). Got back ~ 2330.

July 10 - After brunch, packed up & left the Lab at 1415. Birds seen in Gothic & vicinity 3-10 July (actually Gunnison to Gunnison):

* Ferruginous Hawk - 1 (distant)

Spencer Hawk - sev.

Killdeer

Upland Plover - 1 (near Gunnison)

Common Snipe - 1

Spotted Sandpiper - com.

Mourning Dove - (Gunnison area only)

Broad-tailed Hummingbird - com.

Rufous Hummingbird - 3 ♂♂

Red-sh. Flicker - com.

Yel. bel. Sapsucker - com.

Alder Flycatcher - 2 ♂♂ +
2 nests + 1
song

W. Wood Pewee

Olive-sided Flycatcher - 2+

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3-10 July bird list cont.

V.-gr. Swallow - 10+

R. cr. Kinglet - 5+

Tree Swallow - 60+

Warbling Vireo - 4

Barn Swallow - com.

Yellow Warbler - com.

Cliff Swallow - com.

Arderton's Warbler - 10+

Gray Jay

MacGillivray's Warbler - 2
(Willow this date)

Stellar's Jay

Wilson's Warbler - 1

Blk-billed Magpie (Gunnison area only)

Com. Raven

W. Meadowlark (Gunnison area only)

Black-capped Chickadee - 6+

Brewer's Blackbird (")

Mt. Chickadee - 4+

Red wing (")

Red br. Nuthatch - 1

Brown-headed Cowbird - 1 ♀

Dipper - 1+

W. Tanager - 3+

Robin - com.

Blk-headed Grosbeak - 1 ♂

Swinson's Thrush - sev. by voice

Lazuli Bunting - 1 ♀

Hermit Thrush - 1 seen by NIL

Cassin's Finch - com.

W. Bluebird - 1 ♀ w/ happy breast and bothie + many eggs.

Mt. Bluebird - sev. at Lake Meridian + probably host of those

^{at Lake Meridian}
Pine Grosbeak - 1 ♀

Juncos (presumably Gray-headed) - 2+

Pine Siskin - com.

Arrow Goldfinch - sev. heard

Chipping Sparrow - 2+

Green-tailed Towhee - 1

White-cr. Sparrow - abund.

Vesper Sparrow - 1

Lincoln's Sparrow - com.

From Gunnison ^(after buying dry ice) drove W on US 50. Detoured on

Colo. 347 to visit Black Canyon of the Gunnison Natl Monument (car hiked over once ~~to~~ climbing up to it).

Continued on to Grand Junction where we spent the

night. Total of 187 mi. driven today.

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July 10 cont.

Birds noted Garrison to Montrose, Col.:

Red-wing

W. Tanager - 1 ♂

Brewer Blackbird

W. or Cassin's Kingbird

V.-green Swallow

Starling (nr. Montrose)

Barn Swallow

M. Dove

W. thr. Swift

Robin

Green-tailed Towhee

Montrose to Grand Jet.:

M. Dove

Night Hawk

lots of Pipistrellus hesperus seen.

July 11

Took Interstate 70 from Grand Jet. to Salina, Utah, then Utah 26 to Delta with detour via Fillmore + Utah 100, US 50 to Ely, where we had dinner, + then US 6 to Tonopah. As there were no motels between Ely + Tonopah, a all were full in Tonopah (also the hotel), we went to Miller's Rest stop 12 mi. W of town on US 6-95 + camped for the night. It was ~ midnight by the time we got camped. Total miles for day 655! Between Ely + Tonopah saw lots of Dipodomys on the road + some other rodents + also many hares + cottontails.

July 12

Left Rest stop at 0650 + continued W. on US 6. Had breakfast at Coaldale, ^{Pipistrellus hesperus seen flying and cars at Coaldale.} In Benton, Calif., switched to Calif 120 + continued into Yosemite Natl. Park. Birds noted from campsite to Sierra Nevada:

Erg. Sparrow

Mourning Dove

Horned Lark

Brewers Blackbird

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July 12 cont.

Cassin's Kingbird

White-necked Raven

Had lunch near Tirolerme meadows. Drove thru Yosemite Valley & then back onto Calif. 120. Had dinner at occasion. Birds noted in the Sierra:

Steller's Jay

Green-tailed Towhee? - 1

Calif. Quail

Robin

Pine Grosbeak - 1 ♂

Brewer's Blackbird

Mt. Chickadee

Audubon Warbler - 1

Cassin's Finch

Continued ~~on~~ on Calif. 120 to Manteca & beyond,
& then Interstate 5, 205 & 580 to the Bay Area.

Arrived home ~ 2245. Total of 397 miles for day.

Total mileage for trip = 6197.

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Alaska Trip

19-24 May

May 19 - Left S.F. airport on United flight 0930 for Seattle; ar ~1115. After waiting until 1345 for Alaska Air flight to Fairbanks, it was cancelled precipitously - and scramble for space on other flights. Standby status for Alaska flight at 1400 failed, but then at last minute I got on a Western flight to Anchorage, leaving 1430 (actually left 1500). In Anchorage, managed to find space on a W. Airlines flight to Fairbanks leaving 1815 (1615 PT). Tried to call Jerry at Inst. N. Forestry from Anchorage but failed to get him. Arrived Fairbanks 1930, & Jerry Wolff was there to meet me.

We stopped by Inst. where I called Bonnie Bower regarding her thesis. Then we went to Bob & Judy Weeden's house to visit with Charlie Krebs who was in town briefly to give a seminar (I missed it at 1530). Also talked to Dave Klein & Gary & Peggy Swartz. Judy Weeden is former classmate of Krebs at UCSB, & also taught Comp. Anal. & Beh. for many years at U. of Alaska. Stayed at Jerry's apartment in town.

May 20 - Packed up for trip to Hess Creek, & left ~1030. Partly cloudy. Spring is now advanced than 1 year ago, with birches & aspens almost fully leafed out. As we drove north, development was more retarded. Arrived Hess Creek, hardwoods are just beginning to

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May 20 cont.

Leaf out, there is almost no sign of new grass growth,
+ some small forbs are growing. Mod. wind. Set
out grid traps 1330-1440. Did not hear any vocalizations.
Jung set 3 extra traps at midline of SW corner of
grid. Before we left we had caught ♀ 1279 at this
SW midline. Set 5 traps around each of two middens at the
"27 mi site" at 1445-1500. Jung had marked notes at
these middens last fall. At "27.8 mi.", we set 10
mus. spec. (5 each) in the woods + edge of growing knoll.
(1500-1515). Then at the lower end of the grid
(N. side of road) we set 5 mus. spec. and a midden
which we dug up. We found large volumes of old
deer scat, some of which had considerable ice in it,
+ some of which was sitting right on frozen ground.
We also found a newly made nest of dry grass.
No cache was found. Lastly ⁽¹⁵⁵⁰⁾ we set 10 mus. sp.
(5 each) ~~along~~ along the road to our camp on the
Alaskan supply dump where we have camped before.
We moved the trailer Jung had left along the supply
road up to the top of the hill. We got into camp
just in time for a rain storm which was partly sleet
+ lasted until 1800.

On drive from Fairbanks to Hess Creek, saw two
snowshoe hares along side the road.

1930 - Started out to check traps. Still raining
off + on until about 2000. Had a good look at a Hawk Owl
before leaving camp. Left grid until last. Camp now

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May 20 cont

traps - 1 M.x ♂, 5 traps - lower E of grid - only 1 spring
trap. At 27.8 mi., had 2 M.x (♀♀) + 1 Chas. m. k. l.
At 27 mi. traps, had 2 M.x and each in hole.

After checking grid traps, set compass line
S + N of grid, 5 traps (Stimons) each. Lots of
M.x signs especially S. of grid. Walked back to
rd. along W. side of grid + M.x signs in front
throughout the burn area, although perhaps not as
dense as nearer the creek bottoms. Some vole land
collar + seemed to be lot of activity. Found
marten scat here and there was almost nothing
for a house of M.x. We didn't catch too much
on grid probably because the rain suppressed activity.
Back in camp we could hear whinnying of snipe way
off in the Hess Creek bottoms below camp. Got to
bed by 2145 even though the sun was shining.

May 21 - Ran grid 0700-0800; ~~just~~ checked rest of
trap line + back to camp ~ 0900 for breakfast. Weather
sunny + ~~hot~~ cool; ground + surface water frozen.
Picked up 3 live traps at SW middle off grid. ^{near road W. across line} At
27.8 mi. - caught 2 ♂♂ C. r. At 27.5 (down on N. side)
got 1 M.x ♀, + at trap along camp road, I got 1 ♂
+ 1 ♀ M.x in by line of 5 traps. The S. compass
line off the grid extends for ~ 25 km. from T-line.
Marked M.x was taken: 4th trap but not the furthest one.

After breakfast we drove to where Hess Creek
crosses road (mi. 24). I got out to hike and

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May 21 cont.

This was a walk back to the grid (mi 28). Jerry drove on into Liverpool to get some oatmeal as we had run out of bait. I birded around the Hass Creek bottoms & walked back to between mi 25 & 26 before Jerry got back & picked me up (12:15). We ~~then~~ checked traps on our way back. Got 1 ♀ from 27.8 + at 27.9 1 ♂ Mx + 1 ♂ Cr. Nothing along camp road. While I checked grid traps, Jerry set additional assessment lines around the grid so we now have 7 on the East side (parallel to line 10 & 30 yds away), 8 on West side, 5 additional live traps on S side for total of 10 + 5 mus. species set 30-50 m. away from grid; and on N. side - 5 old + 2 new live traps for total of 7 + 5 mus. species at least 50 m. from grid & adjacent to the road.

Back for lunch at 1400. At 1550 we headed out again. Jerry checked grid while I reset the entire grid, moving virtually every trap & checking bait etc. Jerry on assessment line & also on trapline at 27.8 + 27.9 mi. Caught 1, banded Mx ♂ + 1 ♂ Cr on N. assessment trap line. Also got 2 ♂ Mx at 27.9 traps. After dinner we headed for the traps ~ 1945. Checked camp & rd trap first. I moved all 5 of mine to new locations; Jerry moved 4/5 of his & caught 1 ♂ Mx. At 27.8, Jerry had 1 Cr + 1 white-crowned sparrow; moved 3 of his 5 traps. I moved all 5 of mine. Then we went to 27 mi. side, & back to grid. The grid was

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May 21 cont.

done about 2000 to 2100. Lastly, we checked the 5 traps
at 27.9 xii. - 1 was sprung but caught none. Caught
some mice in ^{superficial} ~~transverse~~ lines set with N & S of grid.

One of 2 M. x for N. transverse lines was marked.

Weather - sunny & relatively warm with sl. to mod.

wind. Watched sun go down ~ 2300, ^{went to bed} & ^{listening to} ~~Hand owl~~.

May 22 - It doesn't really get dark between sunset
& sunrise about 0300, & one can read a newspaper without
additional lights. Started out for traps about 0650.

Picked up all traps. Got back to camp for breakfast
0900. Ground frozen again this morning but not so
deeply as yesterday. The night was definitely warmer, &
there is also more snow on ground at today. There were
about as many as in July, but they are the large, slow-
moving kind which are not very bothersome. Packed up
camp, hauled the trailer down to the foot of the
camp road, & then went to just past end of the
grid area where we dug up a M. x mound which was
built among the roots of a clump of willows. It
contained a large nest, dry but not obviously newly
built and a large (1/4 bucket) hidden chamber.

The hidden chamber about 3 parts of wood & soggy
Equisetum rhizomes which was apparently all that
remained of winter stores. Both nest & hidden
were excavated among roots & buried small logs, so
were well-protected. Then we dug up a few additional
superficial chamber systems in the first, and

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May 22 cont.

additional nests or middens. About 11:00, we headed for Fairbanks. Stopped in Livermore for sandwich at Sam's. They had ham & cheese for \$3.95 or cheese & ham for \$3.50, but as they were all out of ham, we had cheese sandwiches for \$1.80.

Birds seen around Hess Creek:

G.W. Teal - 3 + 80

Marsh Hawk - 1 ♂ (on way up to Hess Cr.)

SL-shinned Hawk - 1 ♀

Least Sandpiper - 1

Lesser Yellowlegs - 1

Snipe - 3 + (1 juv. watched near Hess Cr.; when ♂ came near ♀, he raised the feathers on back & tail feathers vertically. After awhile he took off & started winging.)

Hawk Owl - 1 + (1 seen in M of A - flew near our camp for 1 hr. + (2315-2345) & called intermittently; call reminds me of Screech Owl but lower & a little less wavering); also found a pellet on our grid which by size seems likely to have been this species).

Flicker - 10±

House Lark - 3

V. gr. Shallow - 30±

Town Shallow - 20±

Gray Jay - 5+

Common Raven - 5±

Boreal Chickadee - 10±

Robin - 25±

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May 22 cont.

Myiochanes sp. - heard only = Swainson's Thrush

R. cr. Kinglet - 5 ±

Wash P. tit - 1

Yellow-rumped Warbler - 6 ±

Rusty Blackbird - 1 pr. +

Fox Sparrow - 20 ±

W. cr. Sparrow - 20 ±

Lincoln's Sparrow - 1

Savannah Sp. - 1? (heard only - grassy area cant see)

Got back to Fairbanks - time to get help by
Saw Red Sparrow in tip back
through auto parking on M.X. The Chickadees were
frozen for Jerry to use in tracking. There totalled 10
as follows: S. crown chickadee - 4

N. " " - 2

27.8 in. size - 4

One additional individual was used to bait - a crow
trap. Went to Jerry's apartment to work up, & then
had lunch with Maurine at the Tickle Cove
restaurant.

May 23

After breakfast, Jerry & I went to the Institute of
N. Forestry. I finished auto parking the Volvo. Then
Jerry & I worked on our paper reporting on their life
history. After lunch we worked on our data, getting
ready to go to give a paper on this work
in Bono next month. At 1630 I went to the other
end of campus to visit with Phil Gibson & met

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May 23 cont.

Wayne Hanson & Les Eberhardt from Los Alamos Lab - N. Mex. who work on the N slope (out of Presque Bay) on foxes, shorebirds, small mammals, etc. Then talked briefly to George West & Steve MacLean. Back to Wolff's where Maurer had cooked dinner for us. In afternoon also met John Fox who is theoretical ecologist formerly of Univ. of Wyoming & Univ. of Chicago & now on staff at Univ. of Alaska.

May 24

Other birds seen around Fairbanks:

Herring Gull - 1+

Baldpate - 1 juv.

Mew Gull - 1+

Cliff Swallow - 10+

Swinson's Thrush - many heard

Howards Flycatcher - 5+ heard only

Had breakfast with Jerry & Maurer. Went to INF where we got some frozen materials together for me to take back to the Bay Area. Called Don Calkins in Anchorage to talk about our sea lion paper (missed him on first try, but he called me back later). Talked with Ted Dyrness, Director of INF. Went to Inst. Marine Sci. to look for Bud Fay; he wasn't in so left him a message. Also met briefly Doug Bengelley and Jerry's friend Joanne at IAB. Arrived at Fairbanks airport ~ 10:00, & left on Alaska Airlines flight at 10:30. Stayed in Anchorage for ~ 40 min. then on to Seattle, Arr. Oakland ~ 2015. Retrieved baggage by 2100 & took BART home.

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European Trip

12 June - July 11

June 12 - Left for Atlanta, Georgia to attend ASM meetings in Athens, Ga. Went with Paynie Pearson. Ed Stone, Treasurer of Soc. met us at the airport & drove us to Athens in his rental car.

June 13-17 ASM meetings. On 17th, Dave Krohn drove me to Atlanta about 1645. Got plane at 1900 for NYC.

June 18-19 Visited relative in N.Y. On 19th, scheduled to leave for Frankfurt at 1945. Plane was delayed however until 2335. ^{June 20} This got me into Frankfurt 4 hrs. late so I missed my connecting flight to Prague. As it turned out, ~~the~~ the connecting flight was cancelled anyway because the President of Libya was visiting Czechoslovakia & so the Prague airport was closed all morning. Thus Naomi was still in ~~Prague~~ Frankfurt when I arrived, & we left together on a Czech Airlines flight ~ 1600. We finally checked into the International Hotel in Brno ~ 2030, too late to attend the opening ceremonies of the II ~~th~~ International Theriological Congress.

June 24-27 ITC Congress in Brno

June 28 Left on Post-congress tour of S. ~~Bohemia~~ Bohemia. Highlights: Telč castle, land: Jindřichův Hradec, Trebon (especially the library), Česká Budejovice (afternoon snack). Zvíkov Hotel in Zvíkovské Podhradí (just S of confluence of Otava & Vltava rivers).

June 29 - Went S + E to Soběslav & thence

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June 29 cont

Veseli n.l. to Lesnické Myslivecké + Rybarské
Muzeum (+ Zoo park) = Zámek Hunting Chateau (with
storks nesting on roof). Lannica + Lišov to Hluboká
Castle - Hluboká on the Vltava R. + back to Hotel
Zvukov.

June 30 ~~Got~~ Left hotel early for Prague via Čimelice
+ Dobříš. Dr. + Mrs. Sokolov left the tour that Am
by car was to catch a plane ~ 1000 from Praha to
Moscow. After checking into the Alcron Hotel
+ having lunch at the pub (The Chalice) which is famous
as the setting for the start of the Prd. Schweike novel,
we toured Praha Castle + were returning to the hotel
- mid afternoon. The rest of the Russians then went
to the airport to go to Moscow. This left only 11 on
our tour plus our guide "Tom". Went to outdoor concert
in evening with Tony + Jane Lee, Pat Woolley, + William
Lopez-Fornet, Don + Helen Hoffmeister, + Tiro Kikkawa.
(Missing member of group was Dr. + Mrs. Nishiwaki.)

July 1 Continued tour visiting Konopiste Castle
near Benešov, Slapy Lake + Dam + via Zbraslav
to Karlstejn Castle + brief trip to Lidice,
before returning to Hotel Alcron - Praha. In evening
went to theater with Lee's, Woolley, Lopez-Fornet +
Kikkawa + with guide Tom. Saw Mary Taylor + Bill Camp
+ Kathy Kemper at Hotel.

July 2 ~~T~~^{ow} officially ended after breakfast. Walked
around Prague with Lees until ~ 1400. Nishiwaki's +
Kikkawa left early in pm; Hoffmeister left last evening.

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July 2 cont

~ 2200 to take overnight train to Vienna. Met Jacob Wahrman + Uri Ritten in old town square. At 1454 left on train for Vienna. Traveled w/ Wm Lopez - Forrest + Gordon + Carol Kirkland (the latter had been on the High Tatra tow). Arr. - Wien 2100 where Dick Sage met us with his rental car + we drove to Stadion Hotel.

July 3

Walked around Vienna for couple of hours, then checked out of hotel + drove to Laxenburg where we visited Ray Hilborn (wife Ulrika, son Stephen) at IUSA. After lunch with Ray, the 3 of us left to drive to Switzerland. From Laxenburg west to Baden + Alland to the autobahn west. At ^{Salz}~~Stadl~~burg we entered W. Germany. Just S. of Rosenheim, turned S again into Austria. Started to rain at about Salzburg + continued well into Austria. Stopped for night in village of Kematen, just W. of Innsbruck (Gästhaus Altwirt). Set 18 small Sh. live traps (12 in old barn by the Gästhaus + 6 in the Gästhaus cellar (wines + hams + bacon stored there). Traps baited with rolled oats + bits of bacon.

Birds identified - Czechoslovakia (June 20 - July 2):

Gt. Crested Grebe - 1 y.

Black-necked Grebe - 2+

Little Grebe - sev.

Night Heron - 6

(Gray) Heron - 2+

White Stork - 15±

Mute Swan - 10±

Mallard - 30±

Goldeneye - 10±

Tufted Duck - 40±

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Pochar - 35+

Coot - ~~3~~ many

Buzzard - 2+

Blk. Kite - 2+

Harrier, unident. - 2

Kestrel - com.

Wood Pigeon - few

Rock Dove - com.

Turtle Dove - com.

Com. Shallow - com.

House Martin - com.

Hooded Crow - sev.

Magpie - sev.

Jay - 1+

Starling

unident. titmouse - fairly many
Mark Tit by voice - 1

Linn. - 2+

Chaffinch - 10+

Goldfinch - 25+

Partridge - 2+

Pheasant - com.

Lapwing - 25+

L: Hk Royal Plover - 1

Blk.-headed Gull - com.

Common Tern - 20+

Cuckoo - 2+

Com. Swift - com.

Sky lark - 1

Mistle Thrush - 1

Blackbird - com.

Blackcap - heard only - 1

Phylloscopus sp. - 2+

White Wagtail - 5+

Hedge Sparrow - 1

House Sparrow - com.

Yellowhammer - 10+

Jackdaw - 10+

July 4 Only additional birds of interest seen - Austria were 2
Nightingales seen in Vienna.

Caught nothing - traps at Kematen. Walked around village & took a few photos. Then we continued W. toward Switzerland. Went through Landeck + Pfunds, & on into Switzerland. It rained most of day & got harder into the afternoon. At 1400 we went to bank & had lunch in St. Moritz. Then we hiked up over Bernina Pass into the Poschiavo Valley. It rained hard all

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July 4 cont.

afternoon + evening. Explored to Italian border + then started setting traps. Campocologno: 5 small SL. + 5 mus. sp. in small barns behind house in town. Zolende (just SW of Campocologno + on W. side of R.): 5 SL. ~~etc~~ = kitchen of old house being renovated; caught 1 ad. Mus. puschiavicus by hand while running out of a bag of old bread. Also saw 5 mus. sp. in ~~basement~~ basement. Brusio - large barn saw 5 musp. + 5 live traps. Owner said they were "no rats". Then we left 5 live traps with lady in house in Argeli Custodi, the highest village in the valley to set for us in the house. Then we returned to San Antonio (just below Poschiavo) + checked into Pensione Apollo 12. About 1730 we set ⁷ 1 live trap in the hotel cellar (cantina) + ³ 1 mus. sp. outside (¹⁰ of them were along side the house in a shakedown work area (mini-sawmill) + 4 were between a lumber pile + the house. This gave total of ⁷ 38 live traps + ⁹ 2 snap traps out ($n = 6\frac{5}{6}$). But was extremely, although in first 2 groups of traps, some bits of bacon were used as well. The valley is quite heavily settled + agricultural from Argeli Custodi on down. Quite a few places where we asked about "topalini" said they had none, especially higher in the valley.

July 5

Continuing rain - driest continuously until ~1300. After breakfast at 0800, we checked traps. Around the hotel we had only 3 Apodemus (syriacus) in the

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4 traps set along the end of the wood pile. Other traps just a few feet away in the work area were untouched. Left out all ~~the~~ traps except these 4.

Then we went down the Valley to Brusio: 1 Mus
(WZL #3602)

Sp. in snap trap; all 10 traps picked up. Zolanda:

1 Apodemus ♀ in snap trap - ~~brusio~~ (WZL 3603)

+ 1 M. sp. in live trap - kitchen. Picked up Mus sp.

leaving only 4 Sk. remaining in kitchen. At Campocolongo:

catch nothing. Reset traps as follows - 5 snap - barn

3 live traps under some piles of black plastic sheets (some ^{across the road} ~~barns~~ ^{seen}), + 5 live traps in ¹ ~~cardinal~~ ^{cardinal} of the house.

The 5 traps left at Angeli Crestodi produced nothing;

they were retrieved. Then we returned to hotel where

we caged our 2nd live Mus + processed the others.

2 skinned the Mus + the Apodemus from Zolanda.

Tissues, skulls + skeletons were saved from all 5.

About 1515 started out again. In barn very close to house in Zolanda where we trapped (belonging to Sr.

Ferrari) we set traps at ~1600: upper bay left -

3 snap; empty stalls below - 3 live traps; manure pile

outside - 2 live + 1 snap. We asked at a few more houses,

but couldn't find any additional places to trap in Zolanda.

So went on to Campocolongo. Here we set out 2

additional live traps near the plastic sheets set earlier this

AM. Also submitted other 3 traps with fancy bait (oats

+ a chocolate flavored spread = Nutella). Set 10

Mus sp. around + near the garden at this same site.

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July 5 cont.

One of the 2 ladies there gave us a box of raspberries & 1 of strawberries which they had just picked. At Brusio we went back to the hay barn we had trapped last night & set 4 live traps & 3 snags in the barn; in the cantina of the house across the street (potatoes & onions stored heavily), we set 2 snags & 3 live traps & a neighbor next door took 2 live traps to set. In order to make all these new sets, we removed all remaining ~~snag~~ traps from the Pensione ^(mixed on with live traps) & 12 of the live traps. Returning to the Pensione we went with a man who we presume is the father of the lady who runs the hotel. ^(This time at the hotel) He took us high up on the mountain side to the W where he has a house at 1480 m. ("Canova"). This is above & at below San Antonio (almost even with the upper edge of the Lago). We set our remaining 5 live traps & 4 snags in a small barn where the cats could not enter. Then we looked around some of the beautiful meadows up there & found cuttings in one place. Coming down we brought the hotel ladies' two children back with us. This man (presumed grandfather of the kids) said the mice in his barn were some special kind. He also recognized our species of Mus jelskii as the "tobacco mouse".

Summary of traps out:

Hotel	85 ^{live}	0 ^{snags} (1 was inadvertently left out)
Zelande	9	4
Campocolonne	10	15
Brusio	9	5 (cont.)

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July 5 cont.

Canoe - 5 4

Hours - 38 + 28 = 66

Went out to have dinner at Altavilla Hotel: Paschiavo.

Saw Red-backed Shrike at ~~Zalanda~~ Brusia.

July 6

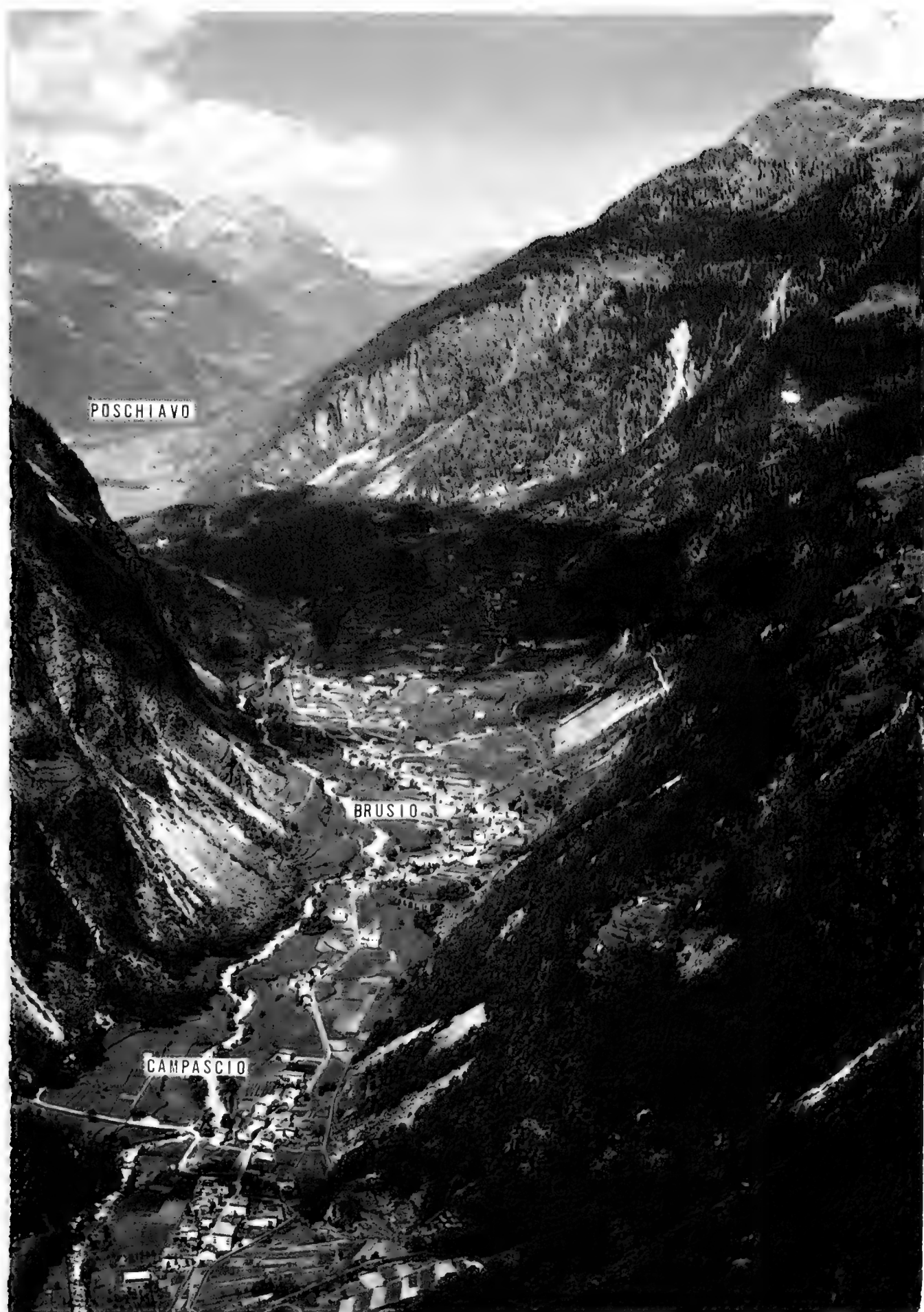
Got up 0730. Pouring rain until about 1215. Checked 5 traps in cantina of hotel after breakfast - no mice. Then the "grandfather" drove us up the mountain to Canoa to pick up our traps there. We took along an 85 yr. old man who lived in Canoa over 40 yrs. & spoke some English.

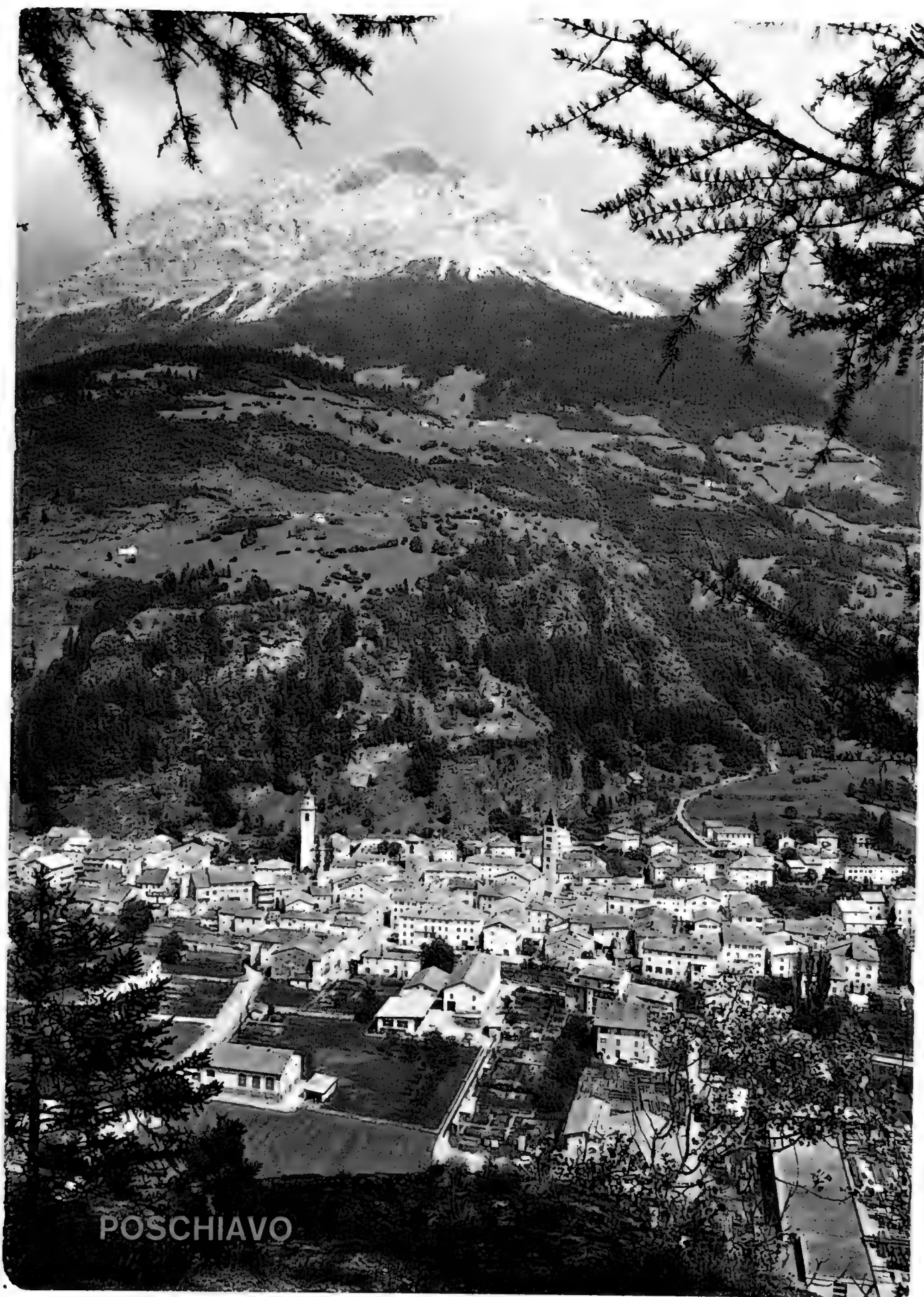
Traps produced nothing. From his description we think that the special "topi" there may be some kind of dormouse.

It was raining while we were in Canoa & the rain seemed slushy until we were $\frac{2}{3}$ of the way back down the mountain. Needless to say it was also quite cold.

The "grandfather" took us to a grainery just behind the hotel & across the river. The man there let us set traps inside and a wood pile which had quite a few mouse droppings around it. We set 5 live & 4 snap traps. Then we went to Brusia. Caught 1 M. paschiavino (well # 3604) in a mus. sp. in the hay barn. Nothing was caught in the cantina across the street or in the 2 traps set by a neighbor. There last 2 were nearly set on top of a can so I moved them to better places in his storehouse. All other traps were left. In Zalanda we caught nothing.

One live trap & 1 snap from the mouse pile were moved to the hay loft where several traps had been sprung. At





POSCHIAVO

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July 6 cont

Campocologno we caught 3 Aphotinus sylvestris in the 10 snap traps set around & near the garden. There were around as well as 2 Stenopus leaving out the 3 Stenopus under the plastic sheets. We also picked up the 5 snappers in the beam & the 5 Stenopus in the cellar. We read 7 sh. around the beam (wood piles, etc.). As we were quite soaked by them, we returned to the hotel to change clothes (via Poschiavo to buy post cards). We got back about 1215.

Then we started processing our catch, almost finishing before lunch at 1300. Then we finished our animals, skinning only the mus but saving tissues from all 4, and went to the bank in Poschiavo. By that time it was sunny & clear. We also picked up the 5 remaining live traps in the hotel conditions. Then we drove up the mountain to Corno taking a few photographs. In an ancient meadow near the house at Corno where we had seen cuttings yesterday, we saw 8 Stenopus & 2 more along the forest edge. Then we went to ^{Campascio} ~~Bassio~~ to the ~~view~~ of a spectacular waterfall. We talked to a man working in a vegetable garden, which included a patch of tobacco (this may be the highest patch of tobacco in the valley). He seemed to be familiar with mus p. (= tobacco worm) & confirmed that they are most common in buildings in winter & move into the fields in summer. We asked him to be more specific. He said they were rare in the garden itself & pointed to the nearby road bank. We looked around in a field (meadow) next to the river & found numerous

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July 6 cont.

mouse-like holes. Some could be microtine but definite runways were seen. We decided to set traps here so we went to Campocolongo + retrieved all but the 3 traps under the plastic. Set then 7 SL + 5 Mus. Sp. in the field; slugs are very very abundant (~1800). Then we returned to San Antonio + set our last 5 traps (live) - a small shed off the main grainery building which contained good mouse signs. Summary of traps set:

	<u>live</u>	<u>snaps</u>
grainery	10	4
Bonsio	9	5
Zalanda	9	4
Campocolongo	3	
Canas		10
Campascio	7	5
<hr/>		
totals	38	+ 28 = 66

Had dinner at Pension Noemi in Paschero. Saw Red-bellied Shrike again at Bonsio + White Throated on mt. side.

July 7 No rain all day! Breakfast at 0800.

Checked traps: started by grainery - none. Picked up all traps at Campascio (slugs awful) + Campocolongo - none. At Zalanda we had 3 Mus. p. in snap traps set in the hay loft, so we set 10 live traps in loft + picked up 3 in stables, + 1 by mouse hole, + 4 in kitchen across the street. Bonsio: In 7 traps - hay barn we had 1 dead + 1 live Mus.; traps 4 live traps + removed 3 snaps. In the cantine across the street we had 1 tiny microtine (Pitmyz?) in a live trap. We could not find the neighbor who had set 2 traps for us. Then we climbed the mountain to Canen to pick up our 10 traps in the smelter there. Caught 1 Sorex - 12 rods

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1978

July 7 cont.

Went to 1 microtus in the meadow. Then we returned to the Pens:one to work on our catch. About noon the man who runs the grocery appeared & so Dick & Naomi picked up our 9 traps there; catch - 1 Apodemus (inglaticus?) in a snap trap. Worked on mice until lunch at 0100 & afterwards for another hour. I skinned 6 of our catch of 8 & we got tissues & complete skeletons from all. Then we went into Poschiavo to the bank & bought some glass-headed pins for pinning the mouse skins. Went to shed by garage & after blocking all exits, we went through the pile of hay in the which contained fresh-looking mouse holes - nothing. We therefore picked up the 5 live traps there.

Then we went down the valley to see & check traps. At the Brusio hay barn, our 4 traps produced 2 live mice, so we set a total of 7 live traps there. Then we retrieved our 2 live traps from a meadow & in the process were taken to a nearby deposits which contained piles of old tobacco leaves & empty wine barrels. We set 10 live traps there. At Compascogno we set 15 mice sp. in a grassy field in which earlier we had seen a few mouse-sized holes (no sleep!). We also looked over several other fields which did not look as promising. In Compascogno we found a large chicken barn which we got permission to set 6 sk. traps around. Then we returned to Zalando to check our 10 traps in the hay loft. To our surprise we had 4 more live mice. We reset the 10 traps. Then we set 9 mice sp. in a storage shed next to the barn which

LIDICKER
1978

July 7 cont.

continued, in addition to alot of machinery, piles of
brushes & some old spilled coffee beans. After
return to San Antonio, I set 5 mus. sp. along a
weedy bank of the river (with nettles etc.).

2000-2130 we had dinner at the Ristorante Bernina
in Poschiavo, & discovered that the owners lived many years in
Merced, Calif. & still have 4 children in that area.

Summary of traps set:

	<u>L.</u>	<u>S.</u>
San Antonio		5
Zalanda	10	9
Campascio	7	.
Campocologno		15
Brusio	17	
	<u>39</u>	<u>29</u>
	+ 29 = 68	

Weather: mostly clear, but fairly strong wind blowing &
quite chilly.

July 8 - Breakfast at 0730.

Picked up 5 traps along river. Had 1 Apodemus which
definitely seems to be of a different species than the others
we have been catching. It is smaller, has much smaller
hind foot, ear, etc. (WCC # 3612). Went to bottom of
valley at Campocologno & worked our way back. ~~9~~ 10
the 15 traps: at field, caught nothing (no sleep). At
Zalanda we had 1 Apodemus: the skel (WCC # 3613);
then traps picked up & as well as all other snap traps. In
the day traps, we had 3 live mus. The 10 traps then
were supplemented with 4 more to make a total of 14.
At Campascio we picked up the 7 live traps there is sky
caught nothing. Finally at Brusio, we caught 3

LIDICKER
1978

July 8 cont.

Mrs. & the boy left a working in the tobacco deposits. We left them trucks and walking ⁷ more to the hay barn including 4 placed on top of the hay (along the edges), for a total of 14 in the barn. Then we we returned to the pensione & I skinned ^{one} the 2 Aptenurus while Naomi packed. We left ~ 1145 & headed for Milano. The address of the Pensione we stayed at is: Fern. Falbo-Battilana, Pensione Appella 12, 7749 Li Curt (tel. 082-51503)

It took us about $3\frac{1}{2}$ hrs. to get to the Milano airport (Linate), stopping only for a brief picnic lunch W of Sondrio. This gave us only a little over 1 hr. to our flight time of 1750 (1650 Swiss time). Dick then drove back to our traplines in Poschiavo for 1 more night of trapping.

In London we were met by our friend Brian Herbert & sons Paul & Alan. They drove us to their home - N. Finchley where we spent the night. ~~The~~

July 9

Herberts drove us back to Heathrow where we arrived ¹³⁰⁰ ~~1200~~ for a flight at 1400 to Chicago. Flight time was ~ 9 hrs. We were met by Naomi's brother Hickey who drove us to Milwaukee where we had left Jeff & Ken with our friend the D.W. Palmers.

July 10 - Relaxant - Milwaukee.

July 11 - Whole family flew home together arriving home ~ 1500 (approx - $2\frac{1}{2}$ hr. delay in flight in Milwaukee).

LIDICKER
1978

Jackson Lake Lodge, Wyoming & INEL, Idaho

10-15 Sept.

Sept. 10 - Flew to Jackson, Wyo., via Salt Lake City to attend session of Environmental Program of Idaho National Engineering Lab (D.O.E.) as member of 5-man review team. Invited by Doyle Markham who is in charge of group. Took bus from airport to Jackson Lake Lodge in Teton Nat. Natl. Park.

Sept. 11-12 - Session - heard 35 papers. Rain & snow most of the time. Saw mtns briefly mid-afternoon of 11th.

For about 1 1/2 hrs. in late afternoon walked around on 11th in rain & snow. Left ~ 1600 on 12th for Idaho Falls.

Dinner w/ Markham & Dick Hansen (CSU). ^{Snowed out on Sept 5, 8 Jackson.}

Sept. 13-14. Site visit at INEL talking to investigators. Other members of review team were:

Tom Hakanson - Los Alamos

Burt Cushing - Battelle, Richland, Wash.

Tom Weaver - Mont. St. U., Bozeman

Clayton White - BYU, Provo

Stayed at Westbank Motel in Idaho Falls. ^{Cool, dry weather + clear sky.}

Sept. 15 - Left 0700 for flight back to San Francisco, via SLC. Got to MVZ about 1000.

Birds noted:

Horned Grebe - 4 (INEL)

* Trumpeter Swan - 5 (1 juv. ad. & 1 pr. of ad + egg.)
on small lake just N of Jackson Lake Lodge)

mallard - 10+ (JLL)

Gadwall - 15+ (")

L. DICKER

1978

11-14 Sept. cont.

Pile-tail - 10+ (JLL)
Cinn. Teal (w Blue-winged) - 5 (no ad. ♂) (JLL)
Amr. Wigeon - 10+ (JLL)
Ruddy Duck - 15+ (")
Cooper's Hawk - 1 (")
Ferruginous Hawk - 2 (INCL)
Marsh Hawk - 1 (INCL)
Sparrow " - 10+ (INCL + transit)
Red tp. " - 3+ (" ")
Sage Grouse - 2 (INCL) + 3 (JLL)
Coot - 30+ (JLL)
Killdeer - 2+ (INCL)
Rock Dove + fawns
Mourning Dove - 5+ (INCL)
Barn Owl + 6+. Horned Owl feathers & pellets = INCL

Rattlesnake Cove

WL. Hw. Swift - 3 (INCL)
Flicker - 1+ (JLL) H. Lark - 30+ (INCL)
Barn Swallow - 10+ (INCL) Blk. H. Magpie - 5+ (transit)
Com. Raven - 4+ (JLL) + 1 (INCL) Robin - 2 (JLL)
Starling - 10+ (transit) Wilson's Warbler - 3+ (JLL) + 1 (INCL)
W. Meadowlark - 10+ (INCL + transit) Red. W. Blackbird - 2+ (JLL)
Rusty Blackbird - 3+ (JLL) Brewer's Blackbird - 40+ (JLL + transit)
unident. Sparrow - 2+ (JLL) Vesper Sp. (?) - 1+ (INCL)
unident. Junco - 2+ (JLL)

Mammals noted:

Neotoma fuscata - 1 (INCL)

LIDICKER

1978

11-14 Sept. cont.

Tamiasciurus - 3+ (JLL)

Eutamias minimus - 2+ (JLL) - hatched one eating
inflorescences of sagebrush (Artemisia)

Antilocapra americana - 30+ (INEL)

Sylvilagus hutchinsii - 1 (INEL)

S. idahoensis - burrows & droppings seen (INEL)

Lepus sp. - droppings seen frequently (INEL)

Lynx rufus - 1 dead (INEL)

Mephitis mephitis - 1 DOB (INEL)

Canis latrans - tracks & droppings (INEL)

gopher mounds, large burrows, Peromyscus tracks (in cave dusty),
white work of Neotoma cinerea (INEL)

Microtus montanus - 1 seen (INEL)

Sagehen Creek Field Station, California

Mammalogy class field trip, 20-22 Oct.

Oct. 20

Left about 9:30-10:00 with 7 vehicles; 28 students
plus Jim & Carol Patton & John Hafner (TA).
Weather: clear & beautiful, down to 23°F each
night, with dust of frost. While working with group
of 10 students just E of rock slide ~ 1 mi. down
stream from the Station, set 4 rod traps along side
of the road. Caught 1 Callospermophilus lateralis within
1 min of setting the first trap (WZL#3615). Also
broke 2 gopher sets near the creek & as a result we
set 5 Townsend live-traps for Neotoma in the

LIDICKER
1978

Oct. 20 cont.

rock slide. There was more fire 2 signs than I remember ever seeing before. Found beaver activity in this area. From 2130 to 2300 watched beaver in the pond by the new house. Saw 3 different individuals, including 2 ad. + 1 smaller one. One ad. had a yellow ear tag in one ear + red in the other.

Oct. 21

Caught 1 Peromyscus maniculatus, 1 Eutamias amoenus + 1 Tamiasciurus douglassi (W22366) in my 4 net traps making a total of 4 species caught in them 4 traps. Also saw 1 E. speciosus in the vicinity. One ad ♀ Neotoma cinerea was in the alive traps. This was brought back to the lab for the day + released in the afternoon. Two additional live traps had been entered but were empty. One other trap had been flagged. Saw & / or heard 3 Winter Wrens.

In afternoon, I set up 4 net traps, + 1 gopher set. Set a second gopher set in vicinity of remaining one. Had gopher run to large meadow ~ $\frac{3}{4}$ mi. E of Station to set for water shrews + Microtus. There was a small pond of M. size in the meadow, mostly irrig. mounds (mostly in places among grass clumps) + piles of cuttings. Then we went along the Independence Lake Rd. to set flying squirrel traps. Set 5, ^{net traps} nailed on trees in forest adjacent to Steve Smith's old chipmunk study area ($1\frac{1}{2}$ mi. N, 0.6 mi. E Sugar Cr. Field Sta., 6640 ft. Sierra Co.). Bait used was apple + peanut butter.

LIDICKER
1978

Oct. 21 cont.

Then drove further W + took left fork about $\frac{1}{2}$ mi. further on + went an additional $\frac{1}{4}$ mi. into forest when the group set an additional 5 traps (2 set one). Worked beaver again in evening (\sim ~~2030~~ 2030-2130). Saw ad. w/ ear tags again + worked it feet, etc. plus heard 1 additional in water + heard one feeding in forest behind us.

Oct. 22

Picked up all traps. Of the 10 working live traps caught: 1 ad. ♂ (brought back to lab + later released)
2 ad. ♀♀ (by location, there were not the same as on caught yesterday) - released

5 additional traps were entered + but bit taken up by Neotoma; 1 trap was entered by Condalia (by size of droppings) was sprung + empty. Only 1 trap was untouched.

Flying squirrel sets: 1 ♂ in trap 2 but set as demonstration, (WZC #3617), + 1 ♀ in trap in 2nd group. Also

one T. douglasii: was taken in second group (2 mi. N Sugar Creek Field Sta, 6800 ft, Sierra Co.) In the meadow truffled by several students, only 2 Microtus longicaudus were caught (1 within 2 ft. of a Salix clump, + 1 under a log on edge of meadow) + no M. montanus.

Left Station about 1400 + drove back to Berkeley arriving about 1745.

Of other birds seen with mentioning were several Brown Creepers + 1 Audubon's Warbler.

LIDICKER
1978

Hastings Natural History Reservation, Monterey Co., Calif.

10-12 Nov. - mammalogy class field trip with Jim Patton
& family. TA = John Hafner. 14 students

Ground level + dry. Class camps total of 3 microtus
= "Gabe Field": all were adults. Stock food was completely
dry so bait was not set. Some rain, sleet, & hail, but
not enough moisture to penetrate soil more than ~1 in.

17-19 Nov. - mammalogy class field trip with 2nd half
of class (13 students).

Three microtus were taken: 2 ad. ♀ + 1 ad.
♂. 1 ♀ had 6 large embryos & the other had given birth about
2 days previously, but old vaginal plug, & was not lactating.
Perhaps there was insufficient moisture to support lactation.
Hit rain Sun. evening upon returning to the Bay Area.

Bill & Ginger Francis came to visit on Sat. evening.

Briones Reservoir, Contra Costa Co., Calif.

Dec. 29, 30

Stopped to view reservoir from several places along
highway on my way back & forth from Russell Reservation.

Count - 40 ±

Pied Bl. Grebe - 20 ±

Shoveler - 4

Eared Grebe - 1+

Baldpate - 8 ±

Red-thr. Loon - 1?

Canada Goose - 65+

Cormorant (D. cv.?) - 25 ±

Amv. Merganser - 10 ±

Bufflehead - 2+

Golden-eye - 1

Ruddy Duck - 15 ±

Gadwall - 10 ±

Lidicker, W. Z.

1978 - 1982

Catalogue

3610 - 3873

Switzerland (pt.)

Calif.

Hawaii

Alaska

Kenya

Ireland

Lidicker, N.

1979

205 - 247

Δ DICKER
1978
+
1979

Brusio, 780 m., Poschiavo Valley, Switzerland

July 7

3610. ♀ *Mus poschiavinus*, 17 gms, 185-93-18-16, ^{no emb, jaws}
+ SKEL, L, K, Ht, + M
+ SKEL, L, K, Ht, M
nullip.
3611. ♀ *Pitymys*? 9.5 g. 122-33-18-13

~~S. Antonio~~ Li Curt, 990 m., 1 1/2 km. S, 1/2 km E Poschiavo, Val Poschiavo
Switzerland

July 8

3612. ♀ *Aptodermis* ^{+ SKEL, L, K, Ht, M.} 28 g. ^{5 emb. x 2000, last?}
182-83-21-15

Zalanda, 606 m., Poschiavo Valley, Switzerland

July 8

3613. ♀ *Aptodermis* ^{+ SKEL, L, K, Ht, + M.} 35 g. ^{no emb, last.}
196-91-23-17

Richard, 900 ft., Contra Costa Co., Calif.

Sept. 26

coll. by J.C. Hatcher
6 pl. scars, recent last

3614. ♀ *Peromyscus truei* 210-105-23-20=28 g.

~~2.7 mi. N, 2.3 mi. W, 6350 ft., NV~~

2.7 mi. N, 2.3 mi. W Hobart Mills, 6350 ft., Nevada Co., Calif.

Oct. 20

3615. ♂ *Callospermophilus lateralis* ^{lateralis} ~~not lateralis~~ ^{test. 8 x 4 mm.}
173.2 g. 260-82-42-22

Oct. 21

3616. ♂ *Tamiasciurus douglasii* ^{with 8 1/2 x 4 mm, not desc, scrot. present}
194.19 g. 285+-83+-55-27

1 1/2 mi. N, 0.6 mi. E Sagehen Creek Field Sta., 6640 ft., Sierra Co., Calif.

Oct. 20/2

3617. ♂ *Blancovys sabrinus* ~~*Tamiasciurus douglasii*~~ ^{test. 7 x 3 mm, not scrot. + stom.}
113.1 g. 284-127-36-20

Hale Pohaku, 9250 ft., Mauna Kea, Hawaii Co., Hawaii

March 20, 1979

3618. ^{SKULL ONLY} *Mus musculus* ♂ P.H, K.L. 11.5 g. ^{tot. 6 x 4 mm, desc. SV. 11 mm}
158-70-18.5-12
3619. " " ♂ P.H, K.L. 15.5 g. ^{tot. 6 x 3.5 mm. SV. 12 mm}
162+-72+-18.5-12
3620. ^{SKULL ONLY} " " ♂ P.H, K.L. 12.5 g. ^{tot. 6 x 4 mm, desc. SV. 10 mm}
157-74-18-11

LIDICKER
1979

Hale Pohaku, 9250 ft., Mauna Kea, Hawaii Co., Hawaii

March 20

3621. *Mus musculus* ♂ 13.5g PHKL. test. 7x4.5 mm; s.v. 10 mm.
167-80-18.5-11
no mb, perons
3622. " " ♀ 14g PHKL. 162-74-18-11.5
3623. SKULL ONLY " ♂ 9.5g PHKL. test. 5.5x3.5 mm; disc. s.v. small
140-63-17.5-11
3624. SKULL ONLY " ♂ 14g PHKL. test. 7.5x4 mm; disc. s.v. 11 mm.
162-77-19-11.5

Hale Pohaku, 9400 ft., Mauna Kea, Hawaii Co., Hawaii

March 20

3625. *Mus musculus* ♀ 10.5g PHKL. no mb, faint pl. scars; ov. 4/c's only
148-69-17-11

Waimea (airport), 2500 ft., S. Kohala Dist., Hawaii Co., Hawaii

March 20 (coll. w/5 mm. by Q. Tomich)

3626. ♂ *Mus musculus* 15.5g PHKL. test. 6x4 mm; s.v. 8 mm.
160-75-19-11.5

Waikoloa Village, 2000 ft., S. Kohala Dist., Hawaii Co., Hawaii

March 20 (coll. w/5 mm. by Q. Tomich)

3627. ♂ *Mus musculus* 12.5g PHKL. test. disc, test. 7x4 mm; s.v. 7 mm.
164-83-20-11.5
3628. ♀ " 5g PHKL. nullip.
111-49-15.5-9.5

Hale Pohaku, 9250 ft., Mauna Kea, Hawaii Co., C 1:1.

March 20

3629. ♂ *Mus musculus* 14g PHKL. test. 6x4 mm; s.v. 8 mm.
158-75-18-11.5
3630. ♀ " 14.5g PHKL. 6 fresh pl. scars
156-72-18-11

Waikoloa Village, 2000 ft., S. Kohala Dist., Hawaii Co., Hawaii

Mar. 20 (coll. w/5 mm. by Q. Tomich)

3631. ♂ *Mus musculus* 8.5g SKULL ONLY PHKL. test. 5x3 mm; st. not visib.
139-64-16-10

Kawaihau, 30 ft., S. Kohala Dist., Hawaii Co., Hawaii

Mar. 21 (coll. ⁶⁻¹⁶ Mar. by Q. Tomich)

3632. ♀ *Mus musculus* 8.5g SKULL ONLY PHKL. club ft. hind foot nullip.
144-68-17-10.5
3633. ♂ " 11.5g PHKL. test. 8x4.5 mm; disc. s.v. 6 mm.
145-70-17-11.5

LIDICKER
1979

Kawai-Lae, 30 ft., S. Kohala Dist., Hawaii Co., Hawaii

		Mar. 21 (coll. ⁶⁻¹⁶ 15 Mar. 6, Q. Tomick)	
	SKULL ONLY	PHKL	multip.
3634	♀ <i>Mus musculus</i>	9.5g	154-77-18-10
3635	♂ " "	15g	test. desc. 6x4.5mm; SV. 10mm.
3636	♀ " "	13.5g	159-74-18-10.5 no emb., horns w/ pl. scars

Hale Pohaku, 9250 ft., Manna Kea, Hawaii Co., Hawaii

		Mar. 21	
		PHKL	test. desc. 6x4.5mm; SV. 9mm.
3637	♂ <i>Mus musculus</i>	15.5g	165-79-19-12

Pohakuloa, 6500 ft., Manna Kea, Hawaii Co., Hawaii

		Mar. 21	
	SKULL ONLY	PHKL	multip.
3638	♀ <i>Mus musculus</i>	9g	144-67-18-11
3639	♂ " "	4.5g	test. 2x1mm
3640	♀ " "	7.5g	104-44-15-9
3641	♂ " "	10.5g	134-61-17-10 test. 5.5x3.5mm; desc. SV. 2mm.

Hale Pohaku, 9400 ft., Manna Kea, Hawaii Co., Hawaii

		March 22	
		PHKL	test. desc. 7x4mm; SV. 10mm; ot. desc.
3642	♂ <i>Mus musculus</i>	14g	157-77-19.5-11.5
3643	♀ " "	14.5g	no emb., horns w/ pl. scars
3644	♀ " "	14g	159-73-17.5-11 5 emb. x 14mm.

Pohakuloa, 6500 ft., Manna Kea, Hawaii Co., ~~HI~~ Hawaii

		March 21	
		PHKL	no emb.; horns w/ pl. scars
3645	♀ <i>Mus musculus</i>	18g	163-75-18-11.5
3646	♀ " "	10.5g	5 emb. x 2mm.
3647	♀ " "	6g	150-71-17.5-11.5
		March 22	
		PHKL	test. desc. 6x3.5mm; SV. 12mm.
3648	♂ <i>Mus musculus</i>	13g	154-74-17.5-10.5
3649	♂ " "	19g	test. desc. 7x5mm; SV. 12mm.

LIDICKER
1979

Hale Pohaku, 9250 ft., Manna Kea, Hawaii Co., Hawaii

<u>March 22</u>			
3650.	♀ ^{SKULL ONLY} <i>Mus musculus</i>	PHXL	mult. p.?, 2 mm x 1 mm, wide, pub. N. ting.
		9.5g.	145-68-17-11.5
3651.	♂ " "	PHXL	test. desc. $6\frac{1}{2} \times 4\frac{1}{2}$ mm; sv. 10 mm.
		14.5g.	175-86-20-12
3652.	♂ " "	PHXL	test. desc. $5\frac{1}{2} \times 4$ mm; sv. 9 mm.
		15g.	167-77-18-10

Kawaihau, 30 ft., S. Kohala Dist., Hawaii Co., Hawaii

<u>March 22</u> (coll. 21-22 Mar. by Q. Tomich)			
3653.	♀ <i>Mus musculus</i>	PHXL	4 mm x 15 mm
		13g.	147-70-17-10.5

<u>March 23</u>			
3654.	♀ ^{SKULL ONLY} <i>Mus musculus</i>	PHXL	mult. p.
		9.5g.	149-75-18.5-10
3655.	♂ " "	PHXL	test. $6\frac{1}{2} \times 4$ mm; sv. 9 mm.
		11.5g.	146-69-17-10

Pohakuloa, 6500 ft., Manna Kea, Hawaii Co., Hawaii

<u>March 23</u>			
3656.	♀ <i>Mus musculus</i>	PHXL	recent partus
		13g.	161-77-18-11.5
3657.	♀ " "	PHXL	partus, no visib. scars, mammary glands dev.
		16.5g.	161-74-18.5-11.5
3658.	♀ ^{SKULL ONLY} " "	PHXL	mult. p.
		8g.	133-62-18-11-
3659.	♀ " "	PHXL	mult. p.
		11.5g.	154-74-18.5-11.5
3660.	♀ " "	PHXL	4 mm x 13 mm + 2 mm x 4 mm
		19.5g.	175-85-19-12
3661.	♀ ^{SKULL ONLY} " "	PHXL	
		9g.	131-63-17-9

Hale Pohaku, 9400 ft., Manna Kea, Hawaii Co., Hawaii

<u>Mar. 23</u>			
3662.	♂ <i>Mus musculus</i>	PHXL	test. desc. 6×4 mm; sv. 10 mm
		12g.	150-70-18-12
3663.	♂ ^{SKULL ONLY} " "	PHXL	test. 4.5×4 mm; sv. small
		9g.	135-59-18-10

Kawaihau, 30 ft., S. Kohala Dist., Hawaii Co., Hawaii

<u>March 23</u> (coll. 21-22 Mar. by Q. Tomich)			
3664.	♀ <i>Mus musculus</i>	PHXL	no sub. horns w/ pl. scars
		10.5g.	153-73-16-10

Licker, N
1979

Pohakuloa, 6500 ft., Mauna Kea, Hawaii Co., Hawaii

March 20

205.	♂	Mus musculus	14.5g.	test. 7x4mm, desc., s.v. 10mm. 153-76-17-13 7emb. x 8mm.
206.	♀	" "	same trap 14.5g.	157-77-18-11 test. 7x4mm, desc., s.v. 7mm.
207.	♂	" "	same trap 16g.	166-78-18-12 (4 d same 6+)
208.	♀	skull only	" " 14.5g.	149-70-18-13- 6emb. x 7mm.
209.	♀	skull only	" " 16.5g.	150-79-18-13 with faint placental scars
210.	♀	skull only	" " 13g.	152-72-16-12 test. 5x3mm, desc., s.v. small
211.	♂	skull only	9.5g. 8.5g.	139-65-18-11

Hale Pohaku, 9400 ft., Mauna Kea, Hawaii Co., Hawaii

March 21

212.	♀	Mus musculus	19.5g.	5emb. x 17mm. 166-81-18-15
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Kawaihae, 30 ft., S. Kohala Dist., Hawaii Co., Hawaii

March 21 (collected ~15 Mar. by Auto Mich)

213.	♀	SKULL ONLY Mus musculus	11.5g.	faint placental scars; tip. small 159-82-18-14 test. 6x4mm, s.v. 4mm.
214.	♂	SKULL ONLY	10g.	150-76-18-12 nullip.
215.	♀	SKULL ONLY	11g.	141-68-15-12 nullip. 7g
216.	♀	SKULL ONLY	11g.	151-75-18-13 not desc. test. 6x4mm, s.v. 5mm
217.	♂	SKULL ONLY	11g.	148-76-18-13 nullip.
218.	♀	SKULL ONLY	11.5g.	155-79-17-14 test. desc. test. 6x3mm, s.v. small
219.	♂	SKULL ONLY	9.5g.	151-78-18-12 nullip.
220.	♀	SKULL ONLY	5g.	101-48-15-10 test. 7x4mm; desc., s.v. 4mm
221.	♂	SKULL ONLY	11g.	138-66-17-11

Hale Pohaku, 9250 ft., Mauna Kea, Hawaii Co., Hawaii

March 22

222.	♀	SKULL ONLY Mus musculus	10.5g.	nullip. 143-71-17-11 test. 5x8mm, not desc., s.v. 9mm.
223.	♂	SKULL ONLY	13g.	160-77-18-13

idicker, N.
1979

Hale Pohaku, 9,250 ft., Mauna Kea, Hawaii Co., Hawaii

March ~~21~~ 22

224. ♂ *Mus musculus*

11g.

test 4x6mm, not desc.
148-71-17-12 ^{SV 9mm}

Pohakuloa, 6,500 ft., Mauna Kea, Hawaii Co., Hawaii

March 21

225. ♂ *Mus musculus*

12g.

test ~~4x5~~ 7x5mm, SV. small
168-86-17-13

March 22

226. ♀ *Mus musculus*

14.5g.

8 emb. x 4 mm.
159-77-89-13

227. ♀ " " SKULL ONLY

15g.

tail-tip missing
153-74-17-12

228. ♂

5.5g.

test. 2.5x1.5mm.

229. ♂

7g.

test. 3x2mm.
127-61-17-12

Kawaihae, 30ft., S. Kohala Dist., Hawaii Co., Hawaii

March 22 (coll. ~15 March by G. Tomich)

230. ♂ *Mus musculus*

8.5g.

test 6x4mm. SV. 2.5mm.
141-71-16-12

231. ♀

11g.

nullip.
145-68-16-10

232. ♀

10.5g.

nullip.
140-68-17-11

~~233~~ Pohakuloa, 6,500ft., Mauna Kea, Hawaii Co., Hawaii

March 22

233. ♂ *Mus musculus*

13g.

test desc., test. 6x4mm, SV. 9mm.
151-70-16-12

234. ♂

7.5g.

test. 2.5x2mm;
180-63-17-11

235. ♀

5.5g.

nullip.
120-55-17-10

236. ♀

17.5g.

placenta, scars 17-
172-78-16-13
test. 5x3mm., SV. 5mm.

237. ♂

13g.

147-71-16-12

238. ♀

18g.

6 emb. x 15mm.
158-78-17-12

Hale Pohaku, 9,250ft., Mauna Kea, Hawaii Co., Hawaii

March 23

239. ♂

SKULL ONLY
Mus musculus

11g.

test. 6.5x3.5mm., SV. 8mm.
149-71-16-11

11

12

13

14

1979

Kawaihae, 30 ft., S. Kohala Dist.; Hawaii Co., HawaiiMarch 23 (coll. Mar. 21-22 by Q. Tomich)

240.	♂	Mus musculus	10.5g.	test. 7x4mm, S.V. 6mm, 144-75-17-10
241.	♂	"	10.5g.	test. desc 7x5mm, S.V. 7mm, 149-44-16-12
242.	♂	"	10g.	test. desc. 7x4mm, S.V. 7mm, 147-73-17-13
243.	♂	"	13.5g.	test. 7x5mm, S.V. 8mm, 151-74-16-12

Honokaa, 1200 ft., Hawaii Co.; HawaiiMarch 23 (coll. March 17 by Q. Tomich)

244.	♀	SKULL ONLY Mus musculus	7.5g.	nullip., 140-68-16-11 emb. x 17mm, 2 resorb. 15
245.	♀	SKULL ONLY	15.5g.	151-71-17-13 nullip.
246.	♀	"	8g.	127-62-16-11 test. 7x4mm, S.V. 5mm
247.	♂	"	13.5g.	143-69-78-12

LIDICKER
1979

Honokaa, 1200 ft., Hawaii Co., Hawaii

Mar. 23 (coll. ~ 17 Mar. by Q. Tomich)

3665.	♀	Mus musculus	PHKL	13.5g	160-77-19.5-11.5 long w/ pl. scars 1st. dist. $7\frac{1}{2} \times 4\frac{1}{2}$ mm; S.V. 8 mm
3666	♂	"	PHKL	13g	160-73-18-11.5 mullip.
3667.	♀	"	PHKL	9g	138-68-17-10.5

Brooks Island, Contra Costa Co., Calif.

April 15 (coll. by F.C. McCollum)

3668.	♀	M. crinitus californicus	PHKL	44g	170-43-21-13 part. P. mod. sup.; N. mod. 7 mm x 19 mm; 11 cl.
3669.	♀	"	PHKL	31g	163-43-20.5-14 part. P. mod. sup.; N. mod. 6 mm x 19 mm; 11 cl.
3670.	♀	"	PHKL	26g	152-40-20.5-12 part. P. mod. sup.; N. mod. 6 mm x 19 mm; 11 cl.
3671.	♀	"	PHKL	24g	143-38-21-14 part. P. mod. sup.; N. mod. 6 mm x 19 mm; 11 cl.
3672.	♂	"	PHKL	36g	180-48-23-14 TND, 3 mm x 2 mm; S.V. 2 mm
3673.	♀	"	PHKL	30g	164-45-22-14 TND, 3 mm x 2 mm; S.V. 2 mm
3674.	♂	"	PHKL	14.5g	122-34-19-9

April 20 (coll. by F.C. McCollum) (Killed 28 Apr.)

3675.	♀	M. crinitus californicus	PHKL	18g	135-39-19.5-11 Vap. pl. long 1 1/2 mm; 1st. small
3676.	♀	"	PHKL	14g	124-35-18-10.5 inf. mullip.
3677.	♀	"	PHKL	29±g	152-48-22-13 C. mod. x 6 mm
3678.	♀	"	PHKL	38g	189-54-22.5-16 no int. recent partus, ca's + 1 lg. follic.
3679.	♀	"	PHKL	37g	182-48-21-14 8 mm x 5 mm
3680.	♀	"	PHKL	36.5g	184-50-21-13.5 no int. recent partus, 2 eggs on 1 horn, 1 cl. + sev.
3681.	♀	"	PHKL	42g	181-48-22-14 51 only eggs: ca's + 1 follic.
3682.	♀	"	PHKL	29g	164-44-20.5-12 no int. + pl. scars

(Killed 29 Apr)

3683.	♀	"	PHKL	30g	186-47-21.5-13.5 part. P. mod. sup.; N. mod. 6 mm x 19 mm + pl. scars
3684.	♀	"	PHKL	41g	180-47-21-14 3 mm x 12 mm
3685.	♀	"	PHKL	36g	169-48-20-14 4 mm x 6 mm

LIDICKER
1979

Brooks Island, Contra Costa Co., Calif.

Apr. 27 (coll. by F. C. McCollum; killed 29 Apr.)

3686. ♀ *Microtus californicus* Fcm #4 PHKL 2 emb. x 23mm. 44 g. 180-49-22-15
3687. ♂ " Fcm #1 PHKL. 44 g. test. 9 x 6mm, at. visib., s.v. 10mm. 200-53-23.5-15

(killed 27 May)

3688. ♀ *Microtus californicus* Fcm #2 PHKL nullip. 30.5 g. 161-42-21-13
3689. ♀ " Fcm #3 PHKL nullip. 28 g. 162-42-22.5-14
3690. ♂ " Fcm #10 PHKL. 30.5 g. 171-47-22-13.5
scnt. dig. test. desc. 7x4½mm, at. visib., s.v. 10mm.

Hale Pohaku, 9250 ft., Mauna Kea, Hawaii Co., Hawaii

March 23

3691. ♂ *Mus musculus* K.L.T. 12.2 g. test. 6½ x 4½mm, at. visib., s.v. 12mm. 158-75-18-11

Hale Pohaku, 9400 ft., Mauna Kea, Hawaii Co., Hawaii

March 23

3692. ♂ *Mus musculus* K.L.T. 12.2 g. test. 6 x 4mm, at. visib., s.v. 8mm. 156-72-18.5-11

Russell Reservation, Lafayette, Contra Costa Co., Calif.

March 30 (killed June 1)

3693. ♀ *Reithrodontomys megalotis* 9 g. 152-78-16.5-13
emb.; nullip.?

May 24

3694. ♂ *Microtus californicus* scnt. dig. field no. 1344 40 g. test. desc. 7x4mm, at. not visib., s.v. 5mm. 168-44-21.5-12
3695. ♂ " scnt. dig. field no. 1325 41.5 g. test. desc. 7x4½mm, at. visib., s.v. 8mm. 165-45-21-12

5½ km W, 4½ km S. Healy, N. side Alaska Range, Alaska

25 July 1978 (skinned 13 July 1979)

coll. by
J. O. Wolff

3696. ♀? *Sorex* 3.6 g. 93-34-12-6
3697. ♀ *Sorex* 7.7 g. 124-46-14-7.5
8 emb. x 4mm.

5½ km W, 4½ km S. Healy, 2300± ft., N. side Alaska Range, Alaska

19 Aug. 1978 (skinned 13 July 1979)

coll. by
J. O. Wolff

3698. ♀ *Sorex* 5.6 g. 113-45-14.5-8
1 active ovary found

LIDICKER

1979

5 1/2 km. W, 4 1/2 km. S. Healy, 2100 ft., N. side Alaska Range, Alaska

April 30 (skinned 16 July) coll. by J.O. Wolff

3699 ♀ *Sorex* 4.4 g 108-35-12-6.5
(skinned 2 Aug.) SKULL ONLY testis 3x2 mm; es. acc. glands
3700 ♂ *Sorex* 5.0 g 96-33-12.5-6

11-13 May 2400 ft. (skinned 2 Aug) coll. by J.O. Wolff

3701 ♂ *Sorex arcticus* 9.6 g testis 6x4 mm, 19. Janis
110-33-13.5-6

Cancer Research Laboratory, Univ of Calif., Berkeley

27 Aug.

3702 ♂ *Longica mus* BALB/c P, H, K, L, musc. only
ln. 29 May, 1979

3703 ♂ " " P, H, K, L, musc. only

3704 ♂ " " PHKL, musc. only
C57 Black ln. 19 June, 1979

3705 ♂ " " PHKL musc. only

3706 ♂ " " PHKL musc. only
HES C3H ln. 24 July, 1979

3707 ♂ " " PHKL musc. only

3708 ♂ " " PHKL musc. only
A/CRGL ln. 24 April, 1979

3709 ♂ " " PHKL musc. only

Kawai Zae, 20 ft. Hawaii Co., Hawaii ("Bulk Sugar Storage")

27 Aug. (caught 23 Aug. by Q. Tomich)

3710 ♀ *Mus musculus* 14.5 g 167-74-18-12 B, K, L, H ov. inactive
SKULL ONLY testis 3x2 mm. BKLH

3711 ♂ " 9 g 139-71-18-11 SV. 12 mm

3712 ♂ " 11 g 128+-53+-18-11 5 1/2 x 3 mm SV. 7 mm

3713 ♀ " 13.5 g 160-76-18-11.5 BKLH
very fat pl. scars clean - 3rd, 2nd. ov. w/ sm. follicles

3714 ♀ " 12.5 g 165-80-18.5-11.5 BKLH

3715 ♀ " 9.5 g 137-66-18.5-12 BKLH 2x visible

3716 ♂ " 13 g 162-75-19-12 SV. 7 mm

3717 ♂ " 15.5 g 169-81-18-12.5 BKLH st. barely visible

3718 ♀ " 12 g 134+-50+-18.5-11.5 BKLH
2 sacs of pl. scars. ov. w/ 4y follicles + no ova. cl. w/ ca's.

LIDICKER
1979

Kawaihewa, 20 ft., Hawaii Co., Hawaii ("Buddha Sugar Storage")

27 Aug (caught 23 Aug. by Q. Tomich)

3719	♀	Mus musculus	SKULL ONLY	9.5	145-73-18-11.5	BLKH	fat
3720	♀	"	SKULL ONLY	13	169-82-18-11	BLKH	fat
3721	♂	"	SKULL ONLY	13.5	168-80-19-12	BLKH	st. barely visib. s.v. 6mm
3722	♀	"	"	14.5	161-76-19-12	BLKH	st. med. falls. only
3723	♂	"	"	15.5	171-83-19-13	BLKH	st. visib. s.v. 10mm
3724	♀	"	SKULL ONLY	10.5	166-76-18.5-12	BLKH	ovaries inactive
3725	♂	"	"	15.5	169-80-19.5-12	BLKH	st. barely visib. s.v. 7mm

28 Aug (caught 23 Aug. by Q. Tomich)

3726	♂	Mus musculus	SKULL ONLY	12.5	165-83-19-12	BLKH	st. barely visib. s.v. 7mm
3727	♀	"	SKULL ONLY	13	156-75-18-11.5	BLKH	fat
3728	♀	"	SKULL ONLY	12	161-76-18.5-13	BLKH	st. med. falls.
3729	♀	"	"	13	173-87-18.5-12	BLKH	st. med. falls.
3730	♀	"	SKULL ONLY	7.5	133-66-17.5-10.5	BLKH	ov. inactive
3731	♀	"	"	14.5	161-75-19-12.5	BLKH	st. med. falls.
3732	♀	"	SKULL ONLY	8.5	136-65-18-10.5	BLKH	ov. inactive
3733	♀	"	"	13	161-77-18-11.5	BLKH	ov. inactive

Kohala Estate Subdivision, 2 mi. N Kawaihewa, 800 ft., Hawaii Co., Hawaii

28 Aug (caught 24 Aug. by Q. Tomich)

3734	♀	Mus musculus	"	13	161-77-19-11.5	BLKH	st. barely visib. ov. inactive
3735	♀	"	"	17.5	176-83-19-12	BLKH	st. med. falls. ov. inactive
3736	♂	"	SKULL ONLY	7.5	138-68-18-11	BLKH	st. med. falls. s.v. 1mm
3737	♀	"	"	14.5	178-83-18.5-13	BLKH	st. med. falls. ov. inactive
3738	♀	"	"	13.5	172-81-19-12.5	BLKH	st. med. falls. ov. inactive
3739	♂	"	SKULL ONLY	9.5	142-69-18.5-11	BLKH	st. med. falls. s.v. 1mm
3740	♂	"	"	15.5	169-81-20-12	BLKH	st. med. falls. s.v. 7mm

LIDICKER

1979

+
1980

Kohala Estate Subdivision, 2 mi. N Kawaihau, 800 ft. Hawaii Co., Hawaii

Aug. 28 (comp'd 24 Aug by Q. Tomich)

3741.	♂	Mus musculus	12.5 g	test. desc. 4x2mm	BLKH	SV. 5mm
3742.	♂	"	9 g	test. desc. 3x2mm	BLKH	SV. 7.5mm
3743.	♂	"	9.5 g	test. desc. 2½x1½mm	BLKH	SV. 1mm
3744.	♂	"	10.5 g	test. desc. 4½x2½mm	BLKH	SV. 2.5mm
3745.	♂	"	14 g	test. desc. 3½x2mm	BLKH	SV. 5mm
3746.	♀	"	12 g	horns w/ pl. scars	BLKH	ovs. w/ med. follicles + few ca's
3747.	♀	"	10.5 g	6 pl. scars in rt. horn, none in lt.	BLKH	ovs. w/ med. follicles + ca's in rt.
3748.	♂	"	9.5 g	test. desc. 4x2½mm	BLKH	SV. 2mm
3749.	♀	"	13.9 g	horns w/ num. pl. scars	BLKH	ovs. w/ med. follicles + few ca's
3750.	♀	"	10.5 g	faint pl. scars - 4 rt. 5 lt.	BLKH	ovs. w/ med. follicles
3751.	♂	"	15 g	test. desc. 5x2½mm	BLKH	SV. 4mm
3752.	♀	"	13.5 g	many faint pl. scars	BLKH	ovs. w/ med. follicles
3753.	♀	"	14.5 g	num. pl. scars: ovs. w/ ca's	BLKH	ovs. w/ med. follicles
3754.	♂	"	13.5 g	test. desc. 3x1½mm	BLKH	SV. 5mm
3755.	♂	"	9 g	test. desc. 3½x1½mm	BLKH	SV. 1mm
3756.	♀	"	11 g	faint pl. scars	BLKH	ovs. inactive
3757.	♀	"	14 g	many pl. scars	BLKH	ovs. w/ med. follicles only
3758.	♂	"	15 g	test. desc. 4½x3mm	BLKH	SV. 9mm
3759.	♀	"	14.5 g	many pl. scars	BLKH	ovs. w/ med. follicles only
3760.	♀	"	17 g	multifol horns	BLKH	ovs. w/ med. follicles + 19 ca's

Russell Reservation, Lafayette, Contra Costa Co., Calif.

Jan. 27, 1980

3761.	♂	Sorex ornatus	5.8 g	test. 7x5mm		107-37-12.5-8
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LIDICKER
1980

5 km. N Mtito Andei, Kenya, ~2500 ft. (38°10'E, 2°40'S)

captured 6 Dec. 1979; died 14 Jan. (coll. by P.W. Sherman)
PWS #1004 + SKEL. nullip.; ovs. inactive

3762. ♀ *Heterocephalus glaber* 19.6 g. 128-38-21-1 K.L.H.

Pt. Pinole, Richmond, Contra Costa Co., Calif.

April 18

3763. ♀ *Lepus californicus* 99.8 g. 186-22-44-38 nullip. apparently abandoned; moribund

5½ km. W, 4½ km S Healy, 2400 ft., N. side Alaska Range, Alaska

11-13 May, 1979 (prop. 5 Sept., 1980) coll. by J.O. Wolff

3764 ♂ *Sorex arcticus* 10 g. 113-34-13-7 test. 6½ x 4 mm; lg. penis + acc. gld.s

3765 ♂ *Sorex* 8 g. 122-46-14-7.5 test. 5½ x 4 mm; lg. acc. gld.s

2650 ft

June 10-11, 1979 (prop. 5 Sept., 1980)

3766 ♂ *Sorex arcticus* 9.3 g. 117-39-14.5-7.5 test. 6½ x 3½ mm; lg. penis + acc. gld.s

3767 ♂ *Sorex* 3 g. 91-32-11.5-6 test. 8½ x 1 mm

3768 ♂ " 3.1 g. 89-33-11-6 test. 2 x 1½ mm

3769 ♂ " 4.9 g. 95-33-11-6.5 test. 6 x 3½ mm; lg. penis

3770 ♂ " 4.4 g. 98-34-11.5-6.5 test. 6½ x 3½ mm; large acc. gld.s

3771 ♂ " 2+ g (pt+1, extra) 97-42-13.5-6 (prop. 6 Sept. 1980) test. 1½ x 1 mm

3772 ♀ " 3.2 g. 87-31-11-6.5 no visible emb. test. 1½ x 1 mm

3773 ♂ " 3 g. 95-35-11.5-6 test. 1½ x 1 mm

3774 ♀ " 3.5 g. 91-33-11.5-7 no emb., parms?

3775 ♀ " 3.8 g. 104-39-13.5-7 no emb., parms?

3776 ♀ " 4.7 g. 92-25-13-7.5 no emb., parms?

3777 ♂ " 5.4 g. 101-34-12-6 test. 6 x 4 mm; lg. penis + large acc. gld.s

3778 ♀ " 13.3 g. 122-44-13.5-7 no visib. emb.; both ovs. w/ lots of c.i. (prop. 8 Sept. 1980) prot. imm.

3779 ? " 2.1 g. 87-34-12.5-6.5 dehydrated

3780 ♀ " 3 g. 96-34-12.5-7 no emb.

LIDICKER
1980

5 1/2 km. W, 4 1/2 km. S Healy, 2650 ft., N side Alaskan Range, Alaska

Jan 10-11, 1979 (Jan. 10 Sept., 1980)

3781 ♀ *Sorex* SKULL ONLY 3.1 g. 91-34-12-6 no emb.; horns tinged, poss. w/sem. fluid
3782 ♂ " SKULL ONLY 8.1 g. 117-46-14-8 test. 5 1/2 x 3 1/2 mm; enlarged penis + acc. glands

2500 ± ft.

Sept. 23, 1978 (Jan. 10 Sept., 1980) coll. by J.O. Wolff

3783 ♂ *Microtus minus* 16.5 g. 118-18-19-12 test. 2 1/2 x 2 mm; s.v. 1 mm; blk. fld. 3 x 2 1/2 mm

2100 ± ft.

April 30, 1979 (Jan. 10 Sept., 1980) coll. by J.O. Wolff

3784 ♂ *Microtus minus* SKULL ONLY 19 g. 128-23-19.5-10.5 test. desc. 7 1/2 x 5 mm; s.v. 8 mm; at. not visib. blk. fld. not visib.

11-13 May 1979 (Jan. 10 Sept., 1980) coll. by J.O. Wolff

3785 ♂ *Microtus minus* 23 g. 125-21-19-11 test. 9 x 6 mm; desc.; at. visib.; s.v. 11 mm. blk. fld. 4 1/2 x 3 mm (inactive)

3786 ♂ " SKULL ONLY 23.5 g. 130-24-20-11 test. 9 x 6 mm; desc.; at. visib.; s.v. 10 mm. blk. fld. 4 x 3 (inactive)

3787 ♂ " SKULL ONLY 26 g. 142-21-19-11 test. desc. 9 1/2 x 6 mm; at. visib.; s.v. 12 mm. blk. fld. 6 1/2 x 5 mm

3788 ♂ " " 22.5 g. 128-22-19.5-11.5 (Jan. 11 Sept., 1980) test. desc. 10 x 6 1/2 mm; at. visib. s.v. 12 mm; blk. fld. 6 x 4

3789 ♂ " " 28.5 g. 136-20-20-11 test. desc. 10 x 6 mm; at. visib.; s.v. 17 mm. blk. flds. 5 x 4 mm

2500 ± ft.

Sept. 24, 1978 (Jan. 10 Sept., 1980) coll. by J.O. Wolff

3790 ♂ " SKULL ONLY 17.5 g. 121-20-19.5-11 test. 2 1/2 x 1 1/2 mm; s.v. 1 mm. blk. fld. 5 x 4 mm (inactive)

3791 ♀ " SKULL ONLY 17.5 g. 118-18-18-11 test. 3 x 2 mm (inactive) nullip.; ovs. inactive

2100 ± ft.

April 30, 1979 coll. by J.O. Wolff

3792 ♂ " SKULL ONLY 18.5 g. 117-21-18-11.5 test. desc. 10 1/2 x 6 mm; at. visib.; s.v. 11 mm. blk. fld. not visib.

2650 ± ft.

Jan 10-11, 1979

3793 ♀ " SKULL ONLY 26.5 g. 120-20-19-10.5 8 emb. x 4 mm (5L, 3R); cl. 5L, 3R blk. fld. not visib.

3794 ♂ *Sorex* SKULL ONLY 8.3 g. 117-43-13.5-6.5 test. 5 x 3 mm; enlarged penis + acc. glands

LIDICKER
1981

Monterey area, Monterey, Calif. - picked up on beach

Sept. 12, 1980

autopsied 8 July, 1981

3807 ♂ *Eulhydra lutris* SKULL ONLY 50-842-80 1.5 kg. 497-65-108-18

Sea World, San Diego, Calif. - born in captivity, parents from Monterey area

April 27, 1980

autopsied 8 July, 1981

3808 ♂ *Eulhydra lutris* 50-939-81 "Betty's pup" 0.8 kg. 400-90-71-12

Jan. 29, 1980

autopsied 8 July, 1981

3809 ♀ SKULL ONLY 50-938-81 "Jenny's pup" 0.8 kg (gutted) 466-100-94-11

Dec. 16, 1980

autopsied 8 July, 1981

3810 ♀ SKULL ONLY 50-941-81 full sib of WBL 3811. 0.84 kg. 412-90-82-10

Dec. 06, 1980

autopsied 8 July, 1981

3811 ♂ 50-942-81 full sib of WBL 3810 0.85 kg. 447-97-80-9

Chochotawska Polana, 1150 m., 10 km. W, 6 1/2 km S Zakopane,

16 Sept.

Tatra Mtns., Poland

3812 ♂ *Sorex* 8 ± 5 (found dead) 127-24-14- -

3813 ♂ *Apodemus flavicollis* 26 ± 5 fast. 2 mm. 216-111-27-20

Kościelisko, 950 ± m., 3 km W Zakopane, Poland

17 Sept.

3814 ♀ *Mus musculus* P, H, K, L. + 2 keratin slides 16 g. fast 8 mm. SKULL 167-78-19.5-13

3815 ♂ P, H, K, L. + 2 keratin slides 14.5 g. fast 6.5 mm. SKULL 169-80-19-13.5

3816 ♀ P, H, K, L. + 3 keratin slides 12 g. no emb. surv. pl. 3 cm + old c. l. SKULL 161-75-18.5-13.5

Obrochówka, 1000 m., 6 km W Zakopane, Poland

Sept. 17

3817 ♀ *Mus musculus* P, H, K, L. + 3 keratin slides 8 g. nullip. SKULL 145-72-19-12.5

3818 ♂ P, H, K, L. + 3 keratin slides 15.5 g. fast. 7.5 mm. SKULL 167-76-19-14

3819 ♀ 16 g. no emb. lost. 175-79-19-13.5

LIDICKER
1981

Roztoki, 1020 m., 7½ km. W. Zakopane, Poland

Sept. 17

3820. ♀ *Ajodermus flavicollis* 30 g. 5 pl. scars hepatic, only old scars in rt. 234-116-26-17.5

Polana Chochoławska, 1150 m., 10 km. W, 6½ km. S Zakopane, Poland

Sept. 16 (killed Sept. 19)

3821 ♂ *Ajodermus flavicollis* 37.5 g. test. 10 mm., inactive 237-115-27.5-18
3822 ♂ " " 30.5 g. test. 7 mm., flaccid 228-111-28-19
3823 ♀ " " 33 g. faint pl. scars only 230-114-25-18
3824 ♂ " " 34.5 g. test. 7 mm., flaccid 240-117-28-19

Turaw, 38 km. S Poznań, Poland

Sept 22

3825 ♀ P, H, L, K, skull nullip. 149-70-18.5-13
3826 ♀ P, H, L, K, skull 11 g. no emb, nullip. 157-73-18.5-13.5
3827 ♀ P, H, L, K, skull 11 g. no emb, nullip. 168-79-19-13.5
3828 ♀ P, H, L, K, skull 10 g. no emb, nullip. 162-77-19-13
3829 ♂ P, H, L, K, skull 11 g. test 6.5 mm., S.V. 5 mm 156-70-18-12.5
3830 ♀ P, H, L, K, skull 11 g. no emb, nullip. 157-72-18.5-13
3831 ♀ P, H, L, K, skull 10.5 g. nullip. 152-68-18.5-13.5
3832 ♂ P, H, L, K, skull 9.5 g. test 7 mm., S.V. 2 mm 148-68-18.5-13
3833 ♂ P, H, L, K, skull 11.5 g. test 7 mm., S.V. 3 mm 151-69-18.5-13.5
3834 ♂ P, H, L, K, skull 9 g. test. 6.5 mm., S.V. 2 mm 144-67-18-13
3835 ♀ P, H, L, K, skull 15.5 g. 6 pl. scars 13. tapeworm cyst in liver 169±-73-18.5-13
3836 ♂ P, H, L, K, skull 10 g. test. 7 mm., S.V. 2 mm 147-66-18-12
3837 ♂ L, K, skull 9 g. test. 6 mm., S.V. 2 mm 137-60-18.5-12.5
3838 ♀ L, K, skull 12.5 g. no emb, pl. scars 160-69-19-13
3839 ♂ L, K, skull 9.5 g. test. 6 mm., S.V. 5 mm 157-70-19-13

LIDICKER
1981

Turkaw, 38 km. S Poznań, Poland

Sept. 22

3840.	♂	P.H., L.K. skull Mus musculus	13g	test 7mm, S.V. 6mm. 101-72-19-14
3841.	♂	P.H., L.K. skull	17.5g	test 7mm, S.V. 9mm. 173-76-19-13.5
3842.	♀	P.H., L.K. skull	9g	nullip. 152-69-18.5-13
3843.	♂	P.H., L.K. skull	10g	test 7mm, S.V. 2mm. 153-72-17-12.5
3844.	♀	P.H., L.K. skull	14g	no emb., pl. scars 167-74-18.5-13.5

Łuże, W of Dąbrowa Leśna, NW edge Warszawa, Poland

Sept. 26

3845.	♀	P.H., L.K. + chrom. Microtus oeconomus	31g	no emb + pl. scars, pub. sign, mod. open 175-49-22.5-14
3846.	♂	P.H., L.K. + chrom	25.5g	test 4mm. 161-43-23-13.5
3847.	♀	P.H., L.K. + chrom arvalis	14.5g	nullip. 124-26-17.5-10
3848.	♂	P.H., L.K. + chrom oeconomus	22g	test 3mm 151-41-22.5-13
3849.	♂	P.H., L.K. + skull	22.5g	test 3.5mm 153-43-21.5-12
3850.	♀	P.H., L.K.	31g	no emb, dorsus, sign. open 166-43-21-13
3851.	♀	P.H., L.K. + skull	18.5g	nullip., pubis fused 151-39-21-12
3852.	♀	P.H., L.K.	41g	no emb, dorsus, pubis mod. sep. 185-52-22-13
3853.	♀	P.H., L.K. + chrom	41.5g	no emb, dorsus, pubis mod. sep. 192-53-24-13.5
3854.	♂	P.H., L.K. + chrom + skull	19.5g	test 2mm 143-39-21-11.5
3855.	♂	P.H., L.K. + chrom + skull	22g	test 3mm 154-43-21.5-13
3856.	♀	P.H., L.K. + chrom	38.5g	no emb, dorsus, pub. mod. sep. 185-54-22.5-15

Sept 27

3857.	♂	P.H., L.K. + skull Microtus oeconomus	15g	test 3mm 142-37-21-11
3858.	♂	P.H., L.K. + skull	19g	test 3mm 149-42-21-11
3859.	♂	P.H., L.K. + skull	20g	test 3.5mm 151-41-21.5-13
3860.	♂	P.H., L.K. + skull	14.5g	test 3mm 136-38-21.5-11

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1984
*1982

Łuże, W of Dąbrowa Leśna, NW edge Warszawa, Poland

Sept. 27

3861.	♀	<i>Microtus oeconomus</i>	15g.	mult. p.; pelvis found 133-35-21-12
3862.	♀	"	19g.	mult. p.; pelvis found 147-41-21.5-13
3863.	♀	"	13g.	mult. p.; pelvis found 128-29-19.5-11
3864.	♂	"	21.5g.	test. 4 mm. 155-42-22.5-13

Sept. 23 (coll. by R. Andrzejewski)

3865.	?	<i>Microtus oeconomus</i>	} skulls matched by size
3866.	?	"	

300 m S Sequim Creek Field Sta. 2.9 mi. W, 2.1 mi. N Hobart Mills, Nevada Co., Calif. 6350 ft.

12 Sept. (coll. by S. K. Martin) - trapline 272, assistant 219, 11.5 cons. 1 acct. trap 11.

3867	♀	<i>Microtus</i>	36.3 g.	181-65-22.5-14.5
------	---	-----------------	---------	------------------

1.8 mi N, 0.4 mi. E Chilcoat, 5500 ft., Plumas Co., Calif.

Oct. 18

3868	♀	<i>Didymus panamintinus</i>	70.0 g	296-166-45-13.5
------	---	-----------------------------	--------	-----------------

Hedding Natural History Reservation, 2100 ft., Monterey Co., Calif.

Nov 21

3869	♂	<i>Peromyscus maniculatus</i>	14.5 g	158-70-20.5-16.5
3870.	♂	<i>Peromyscus truei</i>	25.3 g.	218-112-25-23

Nov. 22

3871	♂	<i>Peromyscus truei</i>	18.1 g	176-85-24-23
------	---	-------------------------	--------	--------------

Grizzly Island, Solano Co., Calif.

Feb. 25, 1982 (coll. by Uzi R. H.)

3872	♀	<i>Sylvilagus</i> (nestling)	39.5g.	found dead	ACC. ONLY
3873.	♀	" (nestling)	36 g.	found dead	ACC. ONLY

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Calif

Hawaii

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Norway

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Coyote Hills Regional Park, Alameda Co. Calif.

Feb. 10 - End. 107 A class field trip. 0800-1200.

Very foggy. Birds of special note: Sora Rail - heard 2,
Say's Phoebe - 2

L. N. Marsh Wrens were singing vigorously. Yellowthroats
on back but ~~not~~ singing (~ 3 + ♂ + 1 ♀ seen)

Jewel Lake, Tilden Park, Contra Costa Co., Calif.

Feb. 11 - Start walk around Jewel Lake, 1500-1600

found 3 bird species of note:

Ring-necked Duck - 2 ♂ + 1 ♀

Winter Wren - 1

Sora - 1 ad. ~~bird~~ was walking in open along
a log on edge of lake. It seemed very tame & came to
within 15 ft. of us. It was pecking back & forth along
the log & shore, & at one point swam ~ 2 ft. from the
log to shore. A number of mallards & coots were swimming
about in the vicinity.

Hawaii Trip

March 18-24

with NIK

March 18

Left SF. airport for Honolulu 0900. Transferred
to Aloha Airlines for a 38 min. flight to Hilo,
Hawaii Co. While waiting in the Honolulu Airport
saw following birds: House Sparrow, House Finch, Indian
Mynah, Spotted Dove. Arrived Hilo 1445 (Hawaii)

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18 March cont.

Time). Rented Budget-Rent-a-car (Toyota Corolla) previously arranged by travel agent. Went in to Hilo to buy groceries & 2 styrofoam coolers (\$2.99 ea.). Drove N toward Honokaa. Took short side trip to see Akaka Falls. Lots of rain. Arrived at Tomich's home (Quentin & Caroline, youngest son Peter) at 1840. Had dinner, visited his lab & stayed overnight.

Birds seen since arriving in Hilo: Spotted Pigeon, Barred Dove, House Sparrow, Golden Plover (1 seen just starting to molt into spring plumage & 1 completely changed), Cardinal (sev. singing ♂♂ at Akaka Falls), Indian Myna (com.), ~~House Finch~~, 1 small yellowish bird at Akaka Falls - possibly Zosterops. Naomi saw a white 12 tern off shore as our plane was approaching Hilo.

March 19

Went to Quentin's office to work on putting together some Japanese style down-stapled mouse traps & to pick up some other Steno traps which we are borrowing. About 10:00 headed for Waimea with Quentin driving a state pickup. At Waimea we bought some more groceries, & headed SW on Highway 190 to "saddle road" (no. 20). Checked in at Mauna Kea State Park (6500 ft.), Polakuloa area, at 1200 (cabin no. 5). Current manager is Clyde Sarrazosa. Had lunch & then went to the Fish & Game facility adjacent to

LIDICKER
1979

March 19 cont.

(game bird farm)

The Park, which is managed by Ah-tae Lee & is famous for its successful cultivation of New Guinea.

Currently it is trying to breed Hawaiian Crows in

captivity as only about 100 individuals remain. Got

permission to trap in the area. Then we drove to

the Univ. of Hawaii facility at 9²⁵ AM for 2K2

series of telescopes on Mauna Kea (Hale Pohaku)

area). From 1500-1600 set 50 traps in the area.

33 by Sherman's (bait oatmeal & peanut butter) & 9

Jiffy traps (bait coconut with small ^{amt.} of oats & peanut butter) were set around & under buildings. 8 by SL

were set at ~ 9400 ft. in Mamane (Sophora

chrysophylla) forest. This scrubby legume produces

charcoal pods & a few are blooming - very rare at

6500-7000 ft. Then we returned to the Pohakuloa

& set 40 Jiffy style traps (same bait). 19 were set

along the fence at the rear (N. side) of the sanctuary

& 21 inside (including 6 inside a pen of Hawaiian

Ducks). About 2100 saw some more across road

near cabin.

March 20

Checked traps at game bird farm:

19 along fence - 1 Rattus rattus - about 2/3 grown; gray
with white belly; gave to Paul Breese to send
to Honolulu for dissection.

Mus - 3 alive & 1 dead

21 inside sanctuary - Mus - 4 alive, 4 dead

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Nov 20 (cont.)

Then went to Hale Pohaku.

9400' - 1 mus

9200' - 7 mus

Only could locate 41 of the traps at 9200'. Left at 1025 for Hilo. Picked up 50 lbs of dry ice at Gaspro Co. that Tom had ordered for us (it has to be flown in from Honolulu). Bought some more groceries, had lunch, & headed back for Pohakuloa about 1300.

Worked until ~1600 processing mice. About 1615 left for Hale Pohaku. 1700-1730 checked & rebaited 8 traps at 9400 ft. & added 1 more sk = 9. Saw a mus along trapline. It had hauled heavily in afternoon and most of morning (above turnoff from saddle road was white & slippery for considerable stretches). Hail has piled deeply in places and around Hale Pohaku most incense trees had hail accumulated under them & some of our traps were sitting in hail. This time we found all traps set at 9200', & set a few new ones. Totals: 32 sk. + 12 downstyle = 44, but 2 ^{sk} continued mice so only 42 left set. By the time we got back to Pohakuloa it was dusk. Checked traps & then it was quite dark by the time we got home. Located 11 down traps inside (6 inside a few of Hawaiian ducks were kept closed). Caught only 1 mus & it was dead (probably got soaked from rain). Along fence, we found 14 of the 15 traps still set there & caught 1 dead mus. Processed animals until very late.

25 Kalanianaʻōle
Ave., Hilo
935-3344

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March 21

Checked traps at Gam Fan first. Only catch was 1 dead baby mus. Reset some of Naomi's line of 11 down into better locations. Nothing along fence. Then we went to Hale Pohaku. At 9400 ft., we caught 1 mus (alive); nothing in all the other traps.

Set 2 additional Shermans below the latrine & 2 additional down traps around a rock house. Procured 1 snail of which before lunch. Continued work until 1500 when we went to Gam Fan to work on our traps.

Removed 6 down traps from duck pen when they had been reset. Put 4 of them around outside of the pen & 3 more around pens on N side of "fan" including pen with friendly Hawaiian crow. Naomi pulled 2 down traps from her line of 11 leaving 9. One of crew at research facility gave us a Ketch-all trap which contained 8 dead mus & 1 live one.

This gave total of 16 traps inside the facility. Along the N. fence, we checked our 19 traps & had 1 mus & 1 closed & empty trap. We moved last 3 traps - line to new locations & set 2 Sherman traps between down traps. This gave total of 20 traps set here or 36 for the facility.

Went to Hale Pohaku. At 9400 ft. (1630-50). Refined trap pit set up this AM with down trap = 9 here. Took several photos of mus habitat here. Reorganized entire line at 9200 ft., moving running traps from under buildings & setting them in manure tree clumps nearby. Added 2 down traps to Naomi's line of 10 ~~around~~ around rock house. This gave

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March 21 cont.

total of 43 traps at 9200'. Caught 1 Mus + 1 Passer domesticus
(Hale P. Laka mus lower of rock; Patakuloo =
long rock; Mauna Loa = long mt., Mauna Kea = white
mt.). Set ^{at 1830} 6 down traps in tree clump near cabin (1 = Chamo-
feeding clump)

Proceeded more mice after dinner. 2130-2210 we
ran traplines at the same bird facility. Inside had
6 Mus + along fence 1 Mus - all alive! } (3 of them died 4/11/80 next Am)
Some moved
traps were replaced & others not giving total traps
set of 14 inside & 19 along fence = 33. Checked 6
traps set near cabin 2215-2230; nothing. Traps
around cabin are nearly ~~to~~ "naio" at Maunani.
Seeds of the latter we seen scattered on the ground
everywhere (they are orange & conspicuous).

March 22

According to Paul Breese it was 28°F at
the "fence" during the night. Some of the duck ponds
were frozen over. Traps inside: 3 alive Mus + 2 dead.
Pulled 3 traps leaving 30. The Catcliff trap had
nothing. Along N fence caught 2 Rattus rattus
which we gave to Paul. Pulled 6 of those traps
leaving 13. We continue to be amazed at how
Mus from here die quickly - traps from exposure while
we have no yet had a single mouse at Hale P. Laka
where it is much colder & we have not checked the
traps at night.

Hale P. Laka: 9400 ft. - Caught 3 Mus; set out 4
down traps giving 9-3+4 = 10 traps.

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March 22 cont.

9250 ft. - Caught 3 Mus or so we thought, additional individual turned up - who we thought was an empty trap later in day. This individual (WZL #3650) could conceivably have been mixed up with #3649 from Polakulua.

Set 2 additional dome traps giving $43 - 3 + 2 = 41$ traps

Proceeded wien until 1500. Checked trapline at Polakulua 1500-1530. Inside facility caught 3 Mus. ^{Loaned} ~~Loaned~~ 4 dome traps to Paul Brown to set + 1 SK - giving $13 - 3 + 5 = 15$. Nothing in fence line now reduced to 13 traps = 28 ^{total} for Polakulua. ~~Went to~~ ~~Hale~~ Talked to Barbara Lee + used Fish + Game phone to try (unsuccessfully) to call Q. Tonick, + to order more dry ice from Gaspro in Hilo. Our 50 lb. supply had virtually vanished by this time, + we moved our frozen rodents into the refrigerator freezer compartment. Drove about 7 mi. NW on road to Waimea + returned, going on to Hale Polakulua. At 9400 ft., added 3 Skunks to line giving 13 traps at this site. At 9250 ft., caught 2 Mus (1 SK. + 1 dome). Set 1 additional SK giving $41 - 2 + 1 = 40$. Checked 6 traps new catch + had 1 Mus (just after dark) leaving 5 traps live. ← (#3648)

Total traps set: $15 + 13 + 13 + 40 + 5 = 86$.

Proceeded wien in evening. Quentin Tonick showed up unexpectedly ~ 2130 + spent the night with us. 2200-2245 - checked traps at Polakulua. Paul was waiting for us at the gate to help us run the traps.

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March 22 cont

Caught 5 live mus inside & some along fence. Kept them mice warm at night by placing them next to fire place in cabin.

March 23

Got up 0630

Very cold again overnight. Quentin left us ~ 0800 to go back to Honokaa; took alot of extra equipment & traps with him so we would have less to carry tomorrow. Picked up all traps. Pohakuloa: inside facility had 6 mus (2 in 1 trap) - all were alive although I was worried as Paul had picked up traps at 0600 & placed mice under heat lamp in kitchen of station. Left 1 SL. & 10 down traps with Paul. Had 1 dead mus in traps along fence.

Hale Pohaku - 9400 ft - 2 alive & 1 dead mus in down trap. 9250 ft - 1 alive ~~in~~ (down) & 1 dead mus (SL. trap). This is the first time we had any mice die in traps at this location. 3 traps were closed & empty. Nothing in 5 traps near cabin.

Procured mice. At 1130 went to Lee's house & called Geoff again about dry ice arrangements & left message with Island Airlines which is freight company flying dry ice in from Honolulu that we would pick it up Sat. (Mar. 24) at 1200. Also ^{tried to} call Caroline Tonich.

Procured animals all the rest of the day. Paul Brown showed up for dinner bringing steery. After dinner we called Caroline Tonich; this time successfully.

Procured mice & packed gear in evening. N/K #236 is possibly another of ~ 4 yg mice caught in trap at P.

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March 24

Got up 0700, packed + cleaned cabin. Left 0930 for Honolulu via Waimanalo. Returned atlas of Hawaii to Barton Lee on way out. Arrived Honolulu ~ 10:55. Left traps + other gear with Caroline Tomich + said goodbye to her. Left there 11:06 + headed for Hilo. Arrived at freight ^{terminal} airport at 12:04. Island air cargo agent was waiting for us with the dry ice. This time it was more carefully packaged in two styrofoam containers. We needed only $\frac{1}{2}$ lb. to pack our specimens. As we were out of dry ice at the cabin, we had used ice blocks to pack our specimens for transport to Hilo.

Had lunch at Herb's on Banyan Drive. Drove briefly S to Onetakekaka Beach, + then checked in at airport. Got gas for our rent-a-car, returned it, + just made our flight out at 15:20. Non-stop to San Francisco, arriving about 2145. Drove home via the Univ. to leave off our frozen specimens. Arrived home ~ 2320.

Saw mongoose run across highway 20 mi. N of Hilo + a second one near Banyan Drive in Hilo.

Autopsy Data on Mus from Polakulua which were dead in traps:

March 20 -

♀ 5.5g. buff-bellied

♂ 12g. " " : test. 5.5 x 3.5 mm., S.V. 9 mm.

♂ 9.5g. dark-bellied : test. 4 x 2 $\frac{1}{2}$ mm.

♂ 15.5g. " " : test. 7 x 4 $\frac{1}{2}$ mm.; S.V. 10 mm.

Dist. of
Satellite Rd
+ Highway 190
S. of Waimanalo
is 53 mi.
from Hilo

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Mus - autopsy cont.

♀ 6.5 g. dk. bellied

♂ 14 g. " " ; test. $6 \times 3\frac{1}{2}$ mm. ; s.v. 9 mm.

March 21 - (then 3 birds in house after being caught alive)

♀ 15.5 g. dark-bellied ; old pl. scars

♀ 16.5 g. buff-bellied ; 5 embryos $\times 8$ mm.

♂ 14.5 g. " " ; test. desc.

March 22 -

♂ 5.5 g. light-bellied

♂ 13 g. dark-bellied ; test. 6×4 mm. ; s.v. 7 mm.

♂ 10.5 g. " " ; test. 5×3 mm. ; s.v. 3 mm.

♂ 14 g. " " ; test. 6×3.5 mm. desc. ; s.v. 8 mm.

March 23 -

♀ 16 g. dark-bellied ; plac. scars, N. end.

♂ 8.5 g. light (buff)-bellied ; test. 4×2.5 mm. ; s.v. small.

Bird list for Island of Hawaii (see also notes for 18 March):

unident. tern (seen by NIL) - March 18

Hawaiian Duck - captivity Pohakuloa

Lesser Duck - " "

Mallard - " "

Nene - " "

Hawaiian Crow - " "

Golden Plover - com (seen as high as ~ 8000 ft.)

Com. Myna - com (seen as high as ~ 7000 ft.)

* Barred Dove - ~ 5 (Hilo)

Spotted Dove - 20± (Hilo + Hamakua Coast)

Hawaiian Sparrow - abund. and localizing, seen as high as 9300 ft.

Hawaiian Finch - com. " " " "

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Bird List cont.

- Warbling Silverbill (Lonchura malabarica) - may have
seen a large flock of them on road to Hale Pohaku
at ~ 7000 ft.; possibly were L. punctulata
- * Ricebird - (Lonchura punctulata) - 10+ in Hilo +
possibly seen on rd. to H. Pohaku, see above.
- Cardinal - com. along Hamakua coast
- * Hawaii Hawk - 5 - 1 dk + 2 lt. phase birds on W
side of Mauna Kea (mi. marker 44 from Hilo on Saddle Rd.).
2 lt. phase along Hamakua coast, one at 25 mi. N Hilo,
+ other ¹⁸ ~~mi.~~ ^{from Hilo} ~~mi.~~ above large gulch.
- European Skylark - com from Waimea, along Saddle Rd
+ up on Hale Pohaku Rd. to ~ 7500 ft.
- Chucker - sev. seen on almost every trip up + down to
Hale Pohaku
- Calif. Quail - abundant around Pohakuloa + seen freq. all the
way up to Hale Pohaku: once seen together with Chuckers
- Ring-necked Pheasant - 1 (near Waimea)
- Japanese Quail (Coturnix) - 1 DOE ~ 7000 ft. on rd.
to Hale Pohaku.
- * Gray Francolin (Francolinus pondicerianus) - 1 juv. ^{H. Pohaku}
- * Black Francolin (F. francolinus) - 2 ♂♂ ~ 4 + 6
^{respectively}
mi. W of Pohakuloa on Saddle Rd. (March 22)
- Turkey - 2 ~ 8000 ft on H. Pohaku Rd (Mar. 21)
- Rock Dove - 2 (both white) in Hilo + 2 possibly also
seen on Waimea airstrip.
- Mockingbird - 1 (Pohakuloa)
- * Japanese White-eye (Zosterops) - 2+ (1 singing on Hale

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Bird List cont.

Pohakuloa rd. (~8000 ft.), 1st at Pohakuloa + 1 family
seen at Akaka Falls on Hamakua coast.

Red-billed Leiothrix - 3 (2 at Pohakuloa + 1 at 9400 ft
above Hale Pohaku) - loud scolding notes.

Elepaio (Chasiempis sandwichensis) - 1 (Pohakuloa);
not seen well, but good enough for identification: noted
wren-like habits + was only bird in experience ~
Hawaii to respond to squeaking.

Amakihi (Loxops virens) - heard singing + calling
frequently from Pohakuloa to 9400 ft above Hale Pohaku;
a number of brief glimpses but seen well only once.

Afapeke (Himatione sanguinea) - 4+ all seen
on lava between Pohakuloa + turnoff to Hale Pohaku.
One bird was singing while perched + flying + circled
around like it had a territory covering several acres of
lava lava (pahoehoe-type).

Livermore - Corral Hollow Field Trip - 107 class

June 4

(Alameda + San Joaquin cos., Calif.)

Microtus seen to be moderately 2:1 in this region.

Sev. were seen, many more heard in the dry grass, + 1
imm. ad. ♂ was caught at the base of the Castle Rock cliffs.
We also caught 1 Reithrodontomys, at dusk on the top
of Castle Rock + about 4-5 juv. Peromyscus were seen
(2 caught) along base of cliffs. Fox scents found + 1
coyote heard calling. Gt. H. Owl - 1 ad. + 4 nearly fledged imm. on
Castle Rock; 1 + Barn Owls + 3 abandoned eggs.

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Alaskan Trip

8-14 June

June 8

Left S.F. airport on Alaska Airlines at 1640. Sam flights stopped in Seattle & Anchorage before arriving in Fairbanks ~ 2145 (2345 PDT). Jerry Wolff met me at the airport & we went to his apartment in town. Very hot night with little breeze.

June 9

Went to INF after getting groceries & got vehicle & equipment for trip to Mt. McKinley Natl. Park & vicinity. Got to Healy at 1130 when we stopped for a cup of coffee before driving off to west on Otto Lake road. This is just N of Mt. McKinley Natl. Park. Continued about 1 or 2 mi. past Otto Lake winding up on a steadily deteriorating track into the foothills & subalpine vegetation. This brought us to the new study area where Jerry has been periodically trapping for Microtus micurus. This is third trip since early April on top of 3 or 4 last summer, starting in July.

Saw a grizzly bear in lower part of study area. Jerry had set 3 traplines yesterday with Joanne Cowley & Bob Murray. He checked them lines (248 snap traps - mixture of mus. sp. & Mc Gill's baited with peanut butter & oats) while I hiked up to alpine vegetation above the trapline. The transition between subalpine & alpine is gradual, with dwarf birch, willow, alder & few scrubby spruce gradually dropping out. I set

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8 June cont.

U-shaped tephra (1) 102 McGill trap traps. There were also 2 at a tephra with sides 30 ft or more apart. The two traps were 2-12 ft. from each other. Microfossil signs were almost non-existent. In the majority of trap sites I dug into the black moss & soil - "mossy" 4-10" below the surface. A few traps were by known entrances, but nothing looked definitely fresh.

Went back to Healy where we had lunch, vision, & Jerry's Healy gas station. Then we went into McKinley Park to Savage River Camp where the INF trailer was parked & Joanne Corby was waiting there for us. While setting traps it was hot, with no wind, & swarms of mosquitoes. As we arrived at camp it started raining hard. It let up later & we cooked our dinner on an open fire. Later that evening it started raining again & continued all night. Jerry & I worked on manuscripts in evening.

At trapping we took 3 photos, the first looking back at Otto Lake. Several Lepus americanus seen on drive down from Fairbanks. Tamiasciurus hudsonicus seen around Park.

June 10

Overcast with intermittent showers & much cooler. After breakfast we drove further into Park going through Sable Pass to next river (East Fork) before turning back. Mammals seen: Caribou - 10 (7+3); moose (2 ♀'s alone seen signs & together); Dall

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Jun 10 cont.

Sheep - 1 ♀, Lepus americanus - 1, and squirrels - several; Spermophilus parryi - sev. No bears!

Then we drove to our study area arriving ~ 1200. Checked traps (total of 350). I had only 4

Clithronomys rutilus: traps # 6, 12, 13, & 51.

All were from traps under moss except for 1 yg. ♀ taken in short open runway leading to burrow entrance - at base of mound w/ lot of dwarf birch. It was surprising to me to get Clithronomys in such open alpine vegetation. It had rained alot since the traps were set & 3 of my traps were floating and another 15+ were sprung apparently from the rain. As I checked my last trap I noticed Jerry waving at me ^{from} near the car (sev. thousand ft. away). I looked back & saw a large Grizzly Bear moving toward me about 300 m. away (Jerry said he seemed to have been stalking me for some time). After he saw me look at him, he seemed to lose interest - following me & walked off along the ridge. This is probably the same bear we saw in the area yesterday. Took photos as follows:

2 of trap line area from side #1

1 of trap-side # 6

1 from top of study area looking down

1 looking back toward bear

sev. of subalpine vegetation

About 1430 went to Jerry's Healy Sta. again for lunch. Then we returned to Fairbanks, left equipment & specimens at INR & organized some gear for

elev. range
of traps =
2500 - 2800
ft.

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June 10 cont.

Trip tomorrow to Hess Creek. Got back to Jerry's apartment at 1800. Dropped Jean off at IAB.

June 11

Got to INF at 0705. Picked up station wagon + Bob Murray, + Michelle Abare (for INF), + Libby Silberling from IAB + Joanne Covey (picked her up at her home on Goldstream Rd.). Drove to Hess Creek field area. Interim: Had rain all morning + a little in afternoon too. Cool ($\sim 45^{\circ}\text{F}$) + strong winds all day. The weather minimized the mosquito problem at Hess Creek. We arrived at the study area about 1100. Went to grid + started digging up nests of M. xanthognathus. Michelle + I set 16 lg. Skunk live traps, baited with oats.

Marked M. x sign on grid + surrounding area, especially heavy in vicinity of creek which is lower than in recent years. In one runway found cuttings of Mertensia (bluebells), Vaccinium, and Arctostaphylos ^{from} uva-ursae. Sign extended on W side of creek at least for 20 yds from creek. Population is heavily down sloping from last year. In one nest, found 5 nestlings - eyes recently open, about 10-12 g., + 3 ♀♀ + 2 ♂♂. Later a chick was seen entering the tunnel system where they were replaced.

At ~ 1200 we went back to car to fix a flat tire and have lunch. We had some trouble fixing the tire so the car rolled off the patch + in trying to get the car back on the level part of the road, the wheel cover

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June 11 cont.

To the locker came M + we had some difficulty getting it back on. Then we found that the spare tire wheel did not fit on the 5 wheel bolts. A State Police van happened along & loaned us a file which we used to enlarge the bolt holes in the spare tire wheel so that we got it on. As it was cold & windy we went to the Alyeska trailer on the side road (to campsite trail) ^{to W 8 side road} and ate our lunch on its leeward side. Took several photos of grid.

Continued digging for nests on grid after lunch. Then we went to 27 mi. side and dug for nests there. M. x population is definitely down there, being restricted to the steep creek banks. We heard them there at first on active ground. No nests were found in this area, however. Above the creek banks, the litter is quite dry with little middle food for M. x. Rows were thick and blowing nicely. Took pictures of 2 of these. Returned to 28 mi. (grid side) and looked for nests on the N side of the road. This is the area in which M. x was abundant in 1975 and undoubtedly common in years thereafter. Now peak size is pretty much restricted to the small creek directly opposite the grid. Voles heard here & lots of peak sign. Several nests found. Left about 1530 for drive back to Fairbanks.

We brought back a total of 15 nests: 7 winter, 6 summer & winter combination, & 2 summer only.

LIDICKER
1979

June 11 cont.

In the process of collecting their nests for a
parasitologist - Anchorage (Glen Haas), we dug
up a lot of burrow systems & found numerous empty
^{under} & cache cavities. Burrow systems are very complex, &
often mimic the structure of root systems and
brush grass clumps. They go down to permafrost
which at this time is about 1 ft. below surface of
litter. Burrows and cache cavities seem often to be
located in junction zone where litter (mostly moss)
meets the soil, and a gap is easily formed. Larger
cavities, now mostly completely empty, were often
found under the shallow roots of a dead spruce
which may be partially tipped over or lying on the
ground. In a few cases, rotting remnants of a winter
cache of rhizomes were found. A good place to look
is where moss has grown up over a tangled ^{mass} ~~mass~~ of
downed branches & or roots. ^{Two} ~~One~~ cache cavities were
about 6" high but with a diameter of at least a meter
and had several possible burrows coming into them. No
winter nest was found in these cases, so it was not
possible to tell how ~~the~~ nests related to hibernation. Summer
nests were of dry grass, ~~at~~ often shallower, or even
on top of winter nests. Some were open on top like a bird's
nest & others were covered. One that I found was in a
side burrow about 6" off of a large empty cavity &
at the same depth.

We arrived back - Fairbanks about 1815. Stopped

LIDICER
1979

June 11 cont

at Ivory Jack's, on Goldstream Rd. for a drink before going back to INF & then home. Jerry & I went to the Blue Dolphin for a pizza instead of cooking dinner. Still overcast, windy, & intermittent rain in afternoon & evening.

June 12

Got to INF by 0800. Got Bob Mowry off to go pick up our traps at Healy; he left about 0900. Worked until ~1500 autopsying samples of small mammals caught at the Healy - Otto Lake study area since 15 July 1978. This site varies in elevation from 2000 to 2800 ft, although traps set at the lowest elevations caught nothing. The site is $1\frac{1}{2}$ to 2 km. N of the Mt. McKinley National Park boundary, and is on the slopes SW of Otto Lake. Locality for specimen labels worked out as: $5\frac{1}{2}$ km. W, $4\frac{1}{2}$ km. S Healy, W. side Alaska Range.

Then we worked on data analysis for most of afternoon & into the evening.

June 13

Autopsied specimens brought back by Bob Mowry yesterday; he got back ~2030. This took most of morning. Analyzed data, talked with Gerry Swartz for about 20 min, & worked on manuscripts with Jerry Wolff. ~~Then~~ Went to dinner with Jerry & Joanne Conley. Then Jerry & I went back to INF to continue working. Mowry picked up all our traps at Healy yesterday, & reported that

LIDICKER
1979

June 13 cont.

10-15% were spring. Several were missing, although I found all of the 102 that I had set. One trap was crushed & had a bear canine impression in the wood base. He did not see the bear, however.

Got to bed for the last.

June 14

Got Alaska Air flight out of Fairbanks at 0700. I had arranged for Don Calkins to meet me in Anchorage & deliver some frozen ^{tissues} ~~specimens~~ (sections from Bering Strait & 1 sea otter). However, he did not show up. The flight was stopped in Seattle. I finally got back to S.F. about 1550 & got a 1635 Airport Connection bus to Berkeley. Naomi met me at the Durom Hotel, & we went directly to MVZ to leave off the frozen specimens I was carrying.

Bird List for the Trip:

Arctic Loon - 1 (seen on 9th & 10th at Otto Lake)

Long-tailed Jaeger - 2 (Mek)

Common Golden-eye - 2+ (OK)

Bewick's Goldeneye - ~6 birds seen (OK) on 9th but only seen flying away; they had Golden-eye wing pattern, but all black backs; could not find them on 10th.

Bufflehead - 6 (3 juv.) - 2 juv. = Mek & 1 OK; 1 juv. = Mek seen on 10th w/ ♀ W.L. w. Scoter which ♂ chased all over pond.

White-winged Scoter - 1 ♀ (Mek), 10+ (OK)

Common Merganser - 1 juv. (OK)

Harlan's Hawk - 1

L. DICKSON
1979

Bird List cont. (8-14 June)

Golden Eagle - 2 (Mck.)

Mead Hawk - 3 +

Kestrel - 1 (F.)

Willow Ptarmigan - 6 + (Mck.)

Sandhill Crane - 1 (F.)

Common Shrike - 6 +

Lesser Yellowlegs - 4 + (OL)

Spotted Sandpiper - 1 (OL)

Mour. Gull - $\approx 30 \pm$ (Mck, OL, F.)

Arctic Tern - 1 (betw. F. & Nenana)

Rock Dove - 10 + (F.)

Blk-billed Magpie - $15 \pm$ (Mck)

Flicker - 1

Robin (up to alpine zone)

Clay Swallow (F)

Swinson's Thrush - com.

Barn Swallow (F)

Trill's Flycatcher - 1 (F)

V. gr. Swallow - 2 (OL)

R. cr. Kinglet - 1 (head)

Common Raven - com.

Yellow Warbler - 2 +

Gray Jay

Orange-cr. Warbler - 1

White-winged Crossbill - $20 \pm$ (Mck.)

Savannah Sparrow - $10 \pm$ (OL)

Tree Sparrow - $10 \pm$ (OL)

Fox Sparrow - com.

WL.-cr. Sparrow - com.

Juncos - $5 \pm$ (Hess Creek)

abbreviations: F = Fairbanks ; OL = Otto Lake ;

Mck = Mt. McKinley Natl. Park

L DICKER

1980

Bioconservationists Trip to Sierra Foothills; 17-18 May

May 17 - Group convened at Forest Genetics Institute in Placerville, Eldorado Co., at about 11:30. I went with Andrew Cockburn and Dick Sage. Tours & talks at the Inst. and vicinity during afternoon and evening. Spent night at Institute. Leader of trip was Lady and Stillins. Arrangements by Wm. Critchfield & Harold Kerster.

May 18 -

After breakfast at the Institute, we drove in a caravan of 13 cars N of Placerville on the rd. to Georgetown. Sev. miles N of fork to Garden Valley we turned E on Bear Creek Rd for several miles until just with Meadow Brook Rd. At this point Travers Creek crossed the road & we stopped to examine a serpentine outcrop for endemic plants. Took a number of photos. Found 1 dead Phrynosoma coronatum which we discarded after checking identification: Stillins, field guide. Herbert Behr spotted a pair of these lizards copulating. Numerous photos were taken of the pair which ~~was~~ in a ventral to ventral position; ♂ on top. After the photographing, I checked them to confirm that individual on top was ♂ (lg. hemipene evident), and on side down was ♀ (clearly but enlarged eggs). Even after handling, they seemed reluctant to move off but stayed close together, & we left them that way. There was also sexual dimorphism in coloration and in the sharpness of the head spines. The ♂'s spines were longer & sharper.

LIDICKER

1980

May 18 cont.

Then we went to Pine Hill which is a little W + N of Rescue. We climbed to the top which is at ~2000 ft. Several endemic plants occur here. We ate lunch on top. Saw Microtus sign near the top & there was also a rock outcropping with abundant Neotoma droppings. From here we went to Shingle Spring (~5 mi S Pine Hill) to see Castalegia stebbinsii, a morning glory named for Stebbins & occurring only in the Pine Hill area (2 localities).

From there we continued S. to Latrobe & on to Ione. Just S of Ione where Highway 49 meets 88 we stopped to examine another little island. This time on a Eocene marine beach deposit ^(Ione Formation). Soil is sandy & of very low fertility. Endemics include Arctostaphylos mertensii which occurs in almost pure stands. In slightly better spots A. m. is replaced by A. viridis. Other endemics are a buckwheat, and a pleasantly aromatic gentian (H....). Also occurring there is Agrostis sandwicensis which is disjunct from other populations occurring in coastal San Diego Co., & from high altitude populations which are probably a different species. Only mammal sign seen was Sylvilagus droppings, & Microtus (runways & 1 individual seen), near the roadside.

Left last locality ~1700 & returned to Berkeley via Highway 12 to Colton & on to Fairfield.



LIDICKER
1980

Brooks Island, Contra Costa Co., Calif.

Oct. 10 - 1330 - 1630 Trip organized by East Bay
Park District. I was invited to go by Mary Jeffords.
Boat used was patrol boat operated by the District.

Personnel: Mary Jeffords, Howard Cogswell, Ted Radke
(then 3 ~~more~~ constitute the Shoreline Comm. of the Board
of Directors), Neil Havlik, Roger Wilde, George & Corinne
Coles, & myself. Weather: clear, mod. W. winds.

Purpose: to inspect effects of burning of most of the
island by the Park District for brush control on Sept. 22

Major unburned parts of the island were: most of the wall
of the quarry, a small section of the S. beach ^{surrounding} ~~and~~ the
concrete bunkers, the buckeye grove on E shore (on
the Indian mound), an area of brush S of the caretaker's
residence, and the area immediately around the caretaker's
area. A number of photographs were taken. Also
unburned was most of the fill area leading to the bunkers.

Active Microtus sign was found in all the unburned
areas except for around the caretaker's area. Some of the
party saw 2 live M. under a board. Runways showing
signs of continuing occupancy in the burned areas were
common. However, relatively few such runs were seen on
the E slope of the island. The fire must have burned more
slowly & sporadically here causing a much lighter
direct fire mortality. Survival of voles in the burned areas
will now depend on how quickly the rains start.
Several active runways were also found in the Salicornia
patches. A number of vole carcasses were found.

LIDICKER

1980

Oct. 10 cont.

including several in unbound areas. One of the latter had the creosote opened up, probably by another Microtus. It was obvious that a fairly high density of m. was present before the burn.

A careful search was also made for White-crowned Sparrows. A flock of about 30 birds was observed on the S. bank. Most were young of the year, but I did hear one song (twice): — 1112... On the N. end there was an additional flock of ~20 birds. According to Cogswell, most of them were gambelli, but at least some were nuttalli. Again I heard one song: — 1112.... Whether or not the two Brooks Island dialects survived will have to wait for the spring breeding season.

One Black-tailed Deer ^(no antlers) was seen on the N. end & bank water fill; droppings were also seen on the fill. No Rattus sign was noted. Neil H. reported seeing one ^{live} Thomomys near the back-eyes trees, & I found one dead & partly burned Onychomys.

The back-eyes along the spring on the E. slope were badly burned if not killed. A small back-eye near the spring on the W. side was partly burned. Baccharis shrubs were burned over long areas but mostly they are still standing & many will probably stump sprout. A few green shoots of forbs & grasses were seen occasionally. Most pronounced were green shoots of some perennial grass lining the upper edge of the road on the E. slope.

LIDICKEN
1980

Oct. 10 cont.

Phasant skeletons & buried eggs were seen commonly.
Also a partial skeleton of what appeared to be a ~~coyote~~ was
seen just down the road on the E. side.

Birds seen:

unident cormorants - sev.

Brown Pelican - 2+

Canada Goose - 3

Song Sparrows - 15+

Coot - sev.

W. Grebe - 2+

Com. Murre - 1 (in ~~at~~ channel to boat ramp)

W. Gull - num.

Ring-billed Gull - 5+

Forster's Tern - 25+

Common Tern - 1

Willet - 2+

Elegant Tern - 2

Blk-bellied Plover - 4+

Kestrel - 2

Killdeer - 4+

Mourning Dove - 2+

Bewick's Wren - 1

Burnwing Owl - 4+

White-cr. Sparrow - 50+

Herring's Gull - 1+

Song Sparrow - 10+

Avocet - 30+

Golden-cr. Sparrow - 2+

L. billed Curlew - 10+

Fox Sparrow

Whimbrel - 2+

Red-wing - 2+

Mottled Gull - 50+

(Com Crow - 1 off Highway Blvd.)

Dovish - 6

Brown Towhee - 2+

W. Sandpiper - 200+

Least Sandpiper - 9

Sanderling - 85+

LIDICKER

1981

Bodega Bay Trip

w/ Andrew Cockburn & Rick Ostfeld

Jan. 17 Left about 1415 & drove directly to Bodega Bay Marine Lab (BML). After short exploratory walk to N of lab buildings, we set out 2 transects of live traps extending from near the shore cliff to the top of the first sand dune. Each line thus traversed various grasslands. Line "A" went from around the perimeter to Junipers & then to dune grass. Line "B" went from around the lupine to dune grass. Each line had 20 trap sites about 8 m. apart. At each site we set 1 Longworth & 1 small collapsible Shermans trap - baited w/ dried oatmeal. These transects were between the Agrostoides dunes & the N. point. There was abundant fresh Microtus sign in the perennial grass areas and only a small amount in the other habitats. Then we moved down the Station road about $\frac{1}{8}$ of mi. and set 10 traps (5 stations) in the Lupinus thickets on the N side of the road - along the slope of first sand dune (transect "D"). The last 10 traps (5 stations) were set in the largely annual grasses on the S. side of the road (transect "C"). Saw trap arrangements on these 2 transects. Total traps set = 100 (50 Longworths + 50 Shermans). Finished setting at 1740; started setting at ~1600.

It was almost too dark to see effectively by the time we finished. Weather: overcast, st. winds, intermittent light rain all afternoon. Lots of carrion scattered. Also deer & rabbits are obviously abundant. We saw a number of deer. Found fox den in dune near transect

LIDICKER
1981

Jan. 17 cont.

A - musky smell & fresh droppings noted. Some droppings contained mostly crab shells.

Took our sleeping gear to the Bunk dormitory & then went to the Tika Restaurant - town for dinner.

After dinner, walked by moonlight back to Station. Rain had stopped & moon was shining through the now thin layer of clouds. Behind the first dune ridge there is a fresh water pond, & in October Rich had noticed around this pond shells of both the native snail

Helminthoglypta & the introduced Helix. We were going to investigate how far from the pond Helix extended & whether or not Helminthoglypta was being excluded. Our search was inefficient in that only Rich had a light. However, we found in a 30-40 m. search, several shells of Helix & lots of Helminthoglypta, but for live snails we found 17 Helmintho. & 0 Helix. We found also 1 baby snail which seemed to be the native form. Walked back to the dormitory on the paved road.

Jan. 18

Mostly clear w/ light wind; cool early becoming warm. After breakfast in the dorm, we picked up all the traps in the order: transects B, A, C, D. Rich has all the data. Three species were caught: Peromyscus maniculatus, Microtus californicus & Reithrodontomys myotis. The last two were only on transect "D". We also saw large numbers of deer, & Rich saw Lepus californicus & Sylvilagus bachmani. Finished traps at ~10:20. Walked out

L. DICKSON
1987

Jan. 18 cont.

to bluffs S of ~~Hanslow~~ Horseshoe Cove then back
(Saw 1 juv. Hakea shear - com.)
around the Cove to the lab. Returned the keys + left.
Stopped briefly along Botany Bay to look at birds.

Drove back to Berkeley stopping off at Winkelman's
Old Dutch delicatessen for lunch (shortly after
leaving Lighter Calif. ⑬). Got to MVZ and unloaded
by ~1500.

Some birds noted on the trip:

Red-thr. Loon - 1	Rough-legged Hawk? - 1
Horned Grebe - 10±	Mead Hawk - 1 ♂
Great Frigate - 20±	Sparrow Hawk - 50±
W. Grebe - 10±	White-tailed Kite - 2 (1 in Richmond)
D. cr. Cormorant - 1+	Calif. Quail - 1 DOB
Pacific Cormorant - 5±	Am. Crow - 120±
Willet Cormorant - 50±	Black Oystercatcher - 15±
Gr. Bl. Heron - 2	Songbird - 45 (Horseshoe Cove)
Common Egret - 2+ (Petaluma marsh)	Blk. Turnstone - 7±
Snowy Egret - 2 (Botany Bay)	Whimbrel - 3 (Horseshoe Cove)
Scaup - willet - 15±	Willet - 50±
Com. Golden-eye - 2+	Rock Sandpiper - 2 (Horseshoe Cove)
Bufflehead - 35±	Least Sandpiper - 2+
Wk. - w. Scoter - 25±	Dunlin - 2+
Sand Scoter - 20±	W. Sandpiper? - 30±
Ruddy Duck - 100±	Mottled Godwit - 200±
Turkey Vulture - 10±	Sanderling - 70±
Coopers Hawk? - 1	Glaucous-winged Gull - 15±
Red-tailed Hawk - 20±	W. Gull - 40±

L. DICKSON
1981

Bird List for Jan 17-18 cont.

Herring Gull - 25+	Raven - 1
Calif. Gull - 5+	W. Crow - 10+
Ring-billed Gull - 20+	Robin - 1+
Mew Gull - 10+	Loggerhead Shrike - 5+
Forster's Tern - 60+	Starling - 200+
Rock Dove - 5+	W. Meadowlark - 5+
Belted Kingfisher - 1	Red-wing - 10+
Flicker - 1 heard only	Brewer's Blackbird - 20+
Black Phoebe - 2	Savannah Sparrow - 3+
Say's Phoebe - 1	W. cr. Sparrow - 25+
Scrub Jay - 1	Song Sparrow - 1+

Calgary, Alberta

March 11-12

Lepus townsendii - numerous individuals in winter pelage seen in Calgary - in front of & in nearby fields. Due to lack of snow, the rabbits really stand out.

Arrived at Paul & Donna Anderson's place about dusk, about 40 mi. WSW of Calgary. Saw 1 Great Gray Owl ("1 ft bird") at Riv place & got to 37 ft. ^{from} it before it flushed. It seemed very interested in a group of coyotes howling nearby, but responded to mouse-like squeaks from us.

In morning saw large flock of Evening Grosbeaks at their feeder, along with a pair of Downy Woodpeckers, several Blk.-capped Chickadees & at least 1 Mountain Chickadee. On way into town saw two coyotes (~ 0740 MST.).

LIDICKER
1981

Hastings Res. - Sta. Lucia mtns. trip: Biosystematics

April 25-26

April 25 - 0815 - met Joe Gregory at his home in Lafayette & we travelled together for this trip. Arr. Hastings at ~11:30. Several talks & walks around Reservation. For meals we continued resources with Dick Sage. Cool with barely perceptible rain in afternoon and again in evening. Stayed overnight at Reservation. Saw Joann Daly's dirt fences & pit traps for her gopher research. Microtus sign is moderate, that is higher than I have seen it for quite a few years. Lots of bobcat scats on slopes of Schoolhouse Hill. Also saw fox badge diggings in a number of places. Jim Griffin's gopher-fungus enclosures on the top of Schoolhouse Hill have 400 odd seedlings/m² whereas in control plots there is zero.

April 26 - 0915 Left with Jim Griffin & J. Daly, Sage & Gregory, & 1 other for Santa Lucia's. Took road to Tassajara Hot Spgs. Observed Griffin's succession plots in burned pine forest on ~~Chew's~~ Chew's Ridge & above Chew camp campground, & finally went 2 mi. further south to site overlooking Salinas Valley & Diablo Range to the east & the west ridge of the Sta Lucia's above Big Sur to the west. In this last site we could observe chaparral regeneration after the major fire almost 3 yrs ago. Lolium seed was scattered after the fire & although this seems to have minimal effect on controlling erosion, the Microtus have obviously taken advantage

LIDICKER
1981

Apr. 26 cont.

of the boranga of grass. One shrub to heavily
colonize after the fire is Ceanothus integrerrimus. We
noticed that about 1 in 10 shrubs was killed by gophers eating
the roots (C. i. is a nitrogen fixer). An occasional
individual was killed by microtus girdling the base
of the stem, & we saw some very fresh sign of this
type. The study site ~~is~~ ^{was} at ~ 4500 ft. elevation.
It was mostly sunny, hot cool, & with a cold westerly
wind blowing. The pine trees in the isolated groves
are P. mon., canadensis. One population ^{at} a slightly
lower elevation was completely killed, with only 2
seedlings alive today. In the Chew's Ridge & Chino
Camp drainages, partial kills occurred and
regeneration is good.

After lunch at last site, enjoying the dramatic
view. At 1330 Joe & I left for home. We arrived
at L's home 1700 & I got home 1730.

Bird List for trip.

unident. egret

Turkey Vulture (none seen high - 5000 Lucie's)

Wk. tailed kite - 2

Red-tailed Hawk

Red-shouldered Hawk (Hastings) - 1

Kestrel

Calif. Quail

mountain Quail (quite a few heard)

Band-tailed Pigeon

LIDICKER
1981

Bird list cont (Apr. 25-26)

Mourning Dove
Rock Dove

W. Hr. Swift

Anna's Hummingbird

Acorn Woodpecker

W. Kingbird

W. Flycatcher

~~Brewer's~~ Olive-sided Flycatcher

Black Phoebe

House Wren

Bewick's Wren

Robin

W. Bluebird

B. gr. Gnatcatcher

Starling

Warbling Vireo

Red-w. Blackbird

Brewer's Blackbird

Bullock's Oriole

House Finch

Chipping Sparrow

Golden-cr. Sparrow

Violet-green Swallow

Barn Swallow

Scrub Jay

Y. br. Magpie

Com. Crow

Chestnut-b. ch. Cuckoo

Plain Titmouse

W. br. Nuthatch (Horseshoe) - 1

Pygmy Nuthatch (Chen's Ridge) - 1
(observed ^{at} excavating a hole in
dead flumed tree snag)

Orange-cr. Warbler (heard only)

Nashville Warbler - 1

Yellow Warbler (heard only)

Blk. Hr. Gray W. - 2

Wilson's Warbler - (heard only)

Lesser Goldfinch

R. sided Towhee

Brown Towhee

Oregon Junco

White-crowned Sparrow

Fox Sparrow (heard only)

Coyote Hills Regional Park, Alameda Co., Calif.

with Fred, 107 B class

May 8 0750-1200

Bird list:

LIDICKER
1981

May 8 cont

Pied bt. Grebe - 2

Snowy Egret - 1

Blk. w. Nigher Heron - 5±

Mallard - 20±

Gadwall - ~ 4 juv.

Pintail - 6

Cinnamon Teal - 5

T. Vulture - 3

Wh. te. Kite - 2 (building nest in willow - surrounded by swamp)

Marsh Hawk - 2+

Calif. Quail - 1

R-n. Pheasant - 10+

Com. Gallinule - 2 (1 seen chased by Coot)

Amv. Coot - 30± (14/6 downy chicks)

Killdeer - 2+

Dowitcher - 1

Song Jay - 2+

Chestnut-b. Chickadee - 2 (feeding eggs at nest in buckeye)

Com. Bush Tit - 1

House Wren - 1+

L. bl. Marsh Wren - 25±

Mockingbird - 1+

Robin - 1

Loggerhead Shrike - 3

Starling - 20± (including 2 nests in different buckeyes - 1 nest 4 eggs ~ 1½ wk > hatching).

Orange c. Warbler - 2+

Larus sp. - 1

Caspian Tern - 1

Forsaker Tern - 6

Mourning Dove - 12±

Gt. H. Owl - 2 (jellys)

condemning Microtus, Rattus
& Sylvilagus)

Allen's Hummingbird - 3+

Ash thr. Flycatcher - 2

Blk Phoebe - 3

W. Wood Pewee - 1

Olive-sided Flycatcher - 1

Barn Swallow - 25±

Cliff Swallow - 20±

Yellowthroat - 20±

Wilson's Warbler - 3+

Red-wing - 50±

Brewer's Blackbird - 30±

(including 1 nest w/ 5 eggs
- Baccharis, ~ 7 hr.
off ground)

W. Tanager - 2

(cont)

LIDICKER
1981

May 8 (cont.)

House Finch - 60+

Amer. Goldfinch - 10+

Brown Towhee - 3

Song Sparrow - 25+

47 species

Mammals: (see also G +, H, Owl)

Lepus californicus - 3+

Sylvilagus auduboni - 2+

Oryzologyz cuniculus - 1

Ondatra zibethica - 1 (attacked by coyote) plus red.
ants. of sign.

Procyon lotor - tracks

Spermophilus beecheyi - 12+

POLAND + NORWAY

31 August to 4 October

Aug 31 - Left San Francisco on United flight for Newark at 1420 (20 min. late). Bus to 34th St. terminal + taxi to Gratchin's apartment.

Sept. 1 - taxi to airline terminal on 1st Ave. + 37th St. + limousine to Kennedy airport. Left at 19:51 (1 hr. + 6 min. late) on Lufthansa flight for Frankfurt.

Sept. 2 - 0200 (EST), aroused (sun up). Arrived at ~ 0935 local time. This is 6 hr time change from NY + 9 hrs. from S.F. Left on Lufthansa flight to Warsaw at 10:56. Cold lunch in flight; arrived at 12:40. Met by K. Andrzejewski who drove me to Hotel Forum where PAN had made a reservation for me.

LIDICKER

1981

Sept. 2 cont. Had several hours rest & then was met by Jan Pinowski who is chairman of the Dept. of Vertebrate Ecology at the Instytut Ekologii & my former host. We took a very comfortable ^(A) taxi to his ~~home~~ apartment for an excellent dinner (complete with beef, 2 kinds of squash, bruchet, custard desert and a Romanian wine - pinot gris (sweet & fruity)). His wife Barbara Pinowska also works in this Dept as an ornithologist. Their daughter ^(Agnieszka) speaks some Spanish as the family lived in Caraca for a year. I took her ^(J) back to Lodz by myself.

Sept 3

Walked to American Embassy to "check in" with them & to deliver letter from Diana Bielianskas (U.S. Natl. Acad. of Sciences) to John Zerolis (Science Attache). Zerolis was in a meeting so I left letter with his secretary. Was large crowd of people milling around outside of Embassy. At 12:30 Barbara Diehl (ornithologist who was in Berkeley last Nov.) met me at the hotel with car from the Instytut. Barbara did not go to Inst. so I went alone with the driver - Andrzej. At the Inst. in the lobby of the main building is a very large bulletin-board for Solidarność & a small one and for the Party & teachers union. Many people are wearing Solidarność pins & I saw 1 placed in the rear window of a car. Diehl is leaving in a few days for a conference

LIDICKER

1981

Sept. 3 cont. in Spain. After lunch drove to Białowieża with K. Andrzejewska, driver Andrzej + a graduate student of Roman Andrzejewski's named Ursula. Stopped in the village of Siemiatycza for dinner. Arrived in B. ~ 2000. Edzisteń Pucek greeted us + checked us in to a hotel rebuilt from an old hunting lodge + used for PAN official guests only. We were the only guests.

Sept. 4 - Had breakfast at the Hotel Iwa (willow) which is very nearby. Then we visited at the Mamuch Research Inst. + about mid-morning went out with Krystyna Raczyńska to look at a herd of wood bison which was quite close to the main road into town. We had very close looks at a mixed herd of 9 individuals. From 1300 - ¹⁴⁰⁰~~1430~~ I gave a seminar on "Biological and morphological evolution in Lomax mice on the island of Hawaii". It was held in the seminar room of the Inst. of Forestry + Botany which became Pucek's Inst. does not have a suitable room. I was introduced by Marek Galski. Afterwards we had discussion until 1530. Much of this was with Krystyna Falińska who is plant population ecologist + in the botanical institute but who cooperates with Pucek's group. We were discussing nature of individuality in organisms + populations (esp. plants + esp. asexually reproducing ones). After this K. A. + driver + I had

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Sept. 4 cont.

lunch in local restauracja. Then we went back and had very good discussions with Marek Gebczynski regarding his work on electrophoresis of bank voles, shrews and other topics. As they are having trouble bleeding rodents from the suborbital sinus, I offered to demonstrate the technique tomorrow. Back at the hotel I had a bath. At 2000, we had dinner at Pucik's and discussion until at least 2330. Michalina (Misha) Pucik was an exhibition folk dancer many years ago in Lublin.

Sept. 5 - Had breakfast at Hotel Iwa very nicely.

Then Pucik gave a 1 hr. detailed tour of the Natural History museum. On returning to the Zaklad learned that M. Pucik had dream last night about folk-dancing, including a feeling of floating or flying. Had long discussions with Edzister regarding program of Zaklad. Went through colonies of mammals kept there which included especially Clethrionomys glareolus, Microtus agrestis (~~longicaudatus~~) and the Manchurian Lemmus. These 3 species they are trying to develop into domestication for research purposes. They also have many other species such as Pitymys subterraneus (including a pink-eyed dilution mutant), Aptodromys, and several species of shrews. Marek was with us did not demonstrate bleeding technique. Pucik says that the institute has a mammal collection of 150,000 specimens but I did not have time to see it (he must have ~~been~~ meant 1,500).

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Sept 5 cont. Puck the took us on trip into
Biatowieza forest. We saw magnificent oaks - up to
3 + 400 years old which have been individually named for
various kings & queens who hunted in the Forest. We
also walked for 2 km. on a rough "cat walk" into a
forest ^{area} just outside the national park. Along this
route, trees of various species are labeled with commentary
in Polish from singular explaining basic properties of tree
& its role in forest community. Then we walked the
2 km. back. By the time we checked out of the hotel
& said "do widzenia" to Puck it was 1400. By the
time we had lunch in Biatowieza it was 1500. Saw a
White Stork on drive back to Warszawa; arrived about
1930. Checked back into Hotel Forum and went to bed
almost immediately.

Sept. 6 - Slept almost 12 hrs. At 10:00 Jan
Pimowski met us with his daughter & we went to
visit Wilanów palace & gardens. We spent $1\frac{3}{4}$ hrs.
in the palace & also at least 1 hr. in the gardens. Saw
a European Nuthatch in the garden & common sign of
Talpa europaea. Along a side branch of the Wisla R.
saw: Gt. Crested Grebe - 1 pr. (Podiceps cristatus)
Shoveller - 1 ♀
Black headed Gull - 10+ (Larus melanoleucus)
Had good lunch in restaurant near the palace - run by Hotel
Forum. Drove to Hotel to pick up my boots and

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Sep. 6 cont.

binoculars, & then on to Jan's flat. He has a Yugoslavian-made car. The most common private car is the Polish Fiat. Then we drove to edge of Kampinos Forest where Pinowski's have bought an old (1920's) house and are fixing it up. They expect to move into it perhaps after the winter. They have owned the house for several years but renovation has been very slow because of difficulties in getting supplies. The house has a nice garden. While Mrs. Pinowski worked in the garden, Jan & I walked into and along the edge of the forest. Birds seen on our brief walk & around his house:

Coot - 1+

Mallard - 2+

Phylloscopus sp. - 15+ a few seemed to have dark legs = Chiffchaff; also 1 or 2 were very gray & without noticeable eye stripe - probably young.

Hooded Crow

Rook

Jackdaw

Magpie

Jay

Blind tit - 15+

Crested tit - 1

Willow tit - 1 (heard only) ("Parus montanus")

Blackbird - 1

Large =

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Sept. 6 cont.

Dunnock - 1

House Finch - 5+

Pinariki & Langdon also

saw a large V. f. f. f.

Returned to Pinariki: flat for dinner +

discussions. Watched news on TV. Jan helped me
translate ~~an~~ an article - Polish by Petrusiewicz.

Took bus back to hotel, arriving ~ 22:15.

Sept. 7

At 0900 K. Andrzejewska arrived to take me
to the Instytut Ekologii i Dziedziny Lesny.

She wanted to show me how to get there on the
bus in case I missed the ^{institute} ~~institute~~ bus at 0800.

We arrived after 10:00. Had much discussion about
my plans + arrangements. Also good talk with K.

Petrusiewicz who has emphysema, & has been in
hospital. He came to Inst. to attend meeting of
collegium (administrators of inst. + ~~heads~~ heads of
depts.). Petrusiewicz remains mentally very sharp.

His English is as good as ever, and he is very
interested in "What is a population?" (Sta just

populacji?), i.e. what are logical boundaries. I

tried to express ^{the} view that we need to find out what levels

of discontinuities are important to organisms for

various functions, & to what extent these relevant dis-

continuities coincide. Also had extended discussion

with Regina Rogalska & ~~Leopold~~ ^{Leopold} Nabozko regarding

microtine cycles & the possible role of humors

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Sept. 7 cont

systems in contributing to ~~the~~ cycles. There was no lunch available at the Inst. today (nomally 1630) because of some equipment failure. So at 1500 Krystyna & I took bus to Plac Wilson for Polish pizza. Then she went shopping & I took bus back to hotel, arriving about 1630. This was my first opportunity to write some notes & wash clothes. Tonight was my first chance so far to buy dinner on my own; I managed for 30 140.

Sept. 8

At 0930 met at Hotel of Anna Dobrowolska of the Dept. of Vertebrate Physiology of Warsaw University. She suggested we take a taxi to the Univ. Discussed her work on roles with her. She has measured γ -globulin levels throughout cycle from birth - still Poland. Also analyzed age, density, ^{seasonal changes} sex etc. effects. She has also done electrophoresis of transferrin alleles in M. erveticus as well as Apodemus agrarius & flavicollis. Had good discussion with the head of her Dept., Prof. Janusz Gill. He works on physiology of Lizards, & is also active in organizing conferences on Lizard biology. He is also consultant to IUCN Survival Service Comm. on turpans, gray seals in Baltic, & wood lizards. He thinks his surname derives from French "Gillio" and comes from Napoleonic times. Then met 2 girls working on diurnal rhythms in chickens: interactions with prolactin, corticosterone, and immunological

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Sept. 8 cont.

reforms. Talked with Krystyna I. Zaleska-Fredjan who works on lab mouse & corticosteroids. Then Anna & I took her to Marszałkowska St. where we had lunch. ~~Then~~ We talked about a possible post-doc. grant proposal for her in Berkeley. Then I walked back to Hotel Forum arriving just after 1600. In evening I went to Andrzejewski's where Krystyna helped me to translate more of the Dyskusja from Konnicki's paper on "Superorganism". After a late supper with them (Roman talked alot about his book on population biology which he is co-editing with K. Falinska of Białowieża), I got back to Hotel about mid-night. Since the Russians had stopped running by the K. + R. ~~gave~~ gave me a ride into town in their Polska Fiat. Roman feels that in Russia Naumov and his more holistic views are gaining precedence over the more reductionist attitudes of Svartz and Polyakov. He showed me an ecology book by Shilov (1978 & think) which he said was excellent & should be translated into English. He also complained about Sam Berry's new book on The Biology of the Human Mind because it cited little non-English literature.

Sept. 9

At 0810 I was at Warszawa Centralna (station) to get the bus to Dzięków. After waiting until 0830, I and a number of others from the Instytut decided

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Sept. 9 cont.

that it was not coming. So I walked back to Marszałkowska St. & took the 2 bus sequence to get to the Institute. I finally arrived about 0930. After some discussion & glass of herbata, 5 of us went off to walk in nearby Kampinos Forest. The group included Krystyna, Bogumita Olech, Wacek Malinowska & Lis assistant Barbara. Olech, an ornithologist, was originally going to take us to a more distant place in the forest for a good birding trip, but a car was not available. We helped Wacek & Barbara run 3 of ~ 7 grids (25x25m with 25 live traps each) in the forest. Wacek is interested in studying spatial & temporal information transfer, & the interaction of these 2 dimensions in the small terrestrial communities. Saw alive: Clathromomys glaucolus, Microtus agrestis, Microtus oeconomus (winter area), Apodemus flavicollis, A. sylvaticus, A. agrarius, and Microtus minutus. Only with Krystyna's help did they seem to be able to identify the Microtus and the A. sylvaticus. I took a few photos including skeleton-skeletons for both species of Microtus. Also saw beaver pond made by ~~one~~ one of 3 pairs introduced several years ago into the forest. Then we visited a pig or fox farm where Krystyna is studying Rattus & Mus populations in the barns & making trap-line transects from the barns across adjacent meadows and into the forest. The main problem is

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Sept. 9, cont.

The Rattus will not enter live traps. This project is part of a larger effort to assess farm-forest interactions & is in particular ^{the} transfer of pollutants and pathogens to the forest & humans respectively. Back at the Institute more discussions with Bocky (~~Olch~~ ^{Olch}), Regina Rogalska, & Lech Nalazko. Then I read some papers and a manuscript of Korytko's & we discussed age structure & sex ratios as tools for predicting microtus peaks. Left at 1630 & went into town for "lunch". At 1815 I took train (no. 15) back to the Hotel. Very few birds seen or heard on our walk in the forest as it is a very quiet time of the year: Swallows, Raven-2, Gt. Tit, Dunnock - heard only, etc. Worked on seminar to be given Sept. 11.

Sept 10

At 1000 was met by Andrzejewski's who drove me to his Flat at Warsaw Agricultural Univ. Roman showed me around & explained the program of his Dept. (game biology). Then had discussions with Dr. J. Babinska-Wanka on her research with rodents of city parks (Apodemus agrarius is most ubiquitous & can survive if park is > 1 ha. & next most important requirement is shelter); and with Jacek Goszczyński who works on predators - mainly fox & marten at Rogów, but also predators in parks. Roman coordinates a nation-wide program on game biology. This includes work on Capreolus at Rogów and malleus in Warszawa.

~~Ed~~
LIDICKER
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Sep. 10 cont.

He also chairs - "blue ribbon" committee investigating the Warsaw zoo which apparently is in terrible condition. Had long discussion w/ Włodzisław Aulak who is botanist in Roman's group. He is doing cohort analysis (as with rodents) in 8 species of herbs growing in forest. Very interesting results, but lacks evolutionary perspective. Has detailed data on growth, productivity, dispersion of these species which collectively take up ~98% of vegetation on forest floor. Then Roman, Krystyna & I left for Rogów where is a large research station sponsored by Warsaw Agric. Univ. It is a few miles east of Łódź. We took highway to SW going to Katowice, & then turned W toward Łódź at Rawa Maz. Rogów is ~10-15 km along this road. Roman told us about plans for a new town to be developed NW of Warszawa utilizing ecological principles & nature conservation as guidelines. Roman is involved in the planning & has taught ecology to some Warsaw government minister who is also an architect. She is helping to get architects & biologists together in the planning process. We had "lunch" about 1530 in a small village ^(Jędrów) near Rogów in a small private restaurant. The meal was very good. Rogów is a beautiful estate with dormitory for 200 students, classrooms, arboretum & botanic garden. The arboretum has all species of conifers from N. Hemisphere represented as well as many hardwoods. There also have a museum with mounted birds & mammals - all Polish species being represented. There are

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Sept. 10 cont

also collections of fungi, wood specimens, etc. It is impressive. The main building has beautiful wood interior decorating. Then we drove a few km. on dirt road to edge of large forest patch where studies of Cephus are being conducted. At exactly 1830 we began a count of "sarni" coming out of the forest to feed in the ~~near~~ surrounding meadows & fields. K & I went one way and the forest & down the other. We saw about 12 deer & about 3. Two that we saw had collars, a few were young & about 3 antlered bucks. In one case we observed a ♂ & ♀ with kids close together. When the pair approached a single deer, the ♀ of the pair aggressively chased the single one which quickly ran away. After dark & with increasing ground fog we walked back to the car. In the night Cephus uses the forest during the day & open country at night. Around Kraków where there are larger areas of forest, the deer live entirely in the forest & are tamed. Around Poznań where forests are scarce, an open-country ecotype has developed which lives in the open, but when frightened it runs away from any trees. In driving back to Warszawa we encountered considerable patchy fog which was very thick in some places. Got back to hotel at 2200.

Only seen birds were
Wood Pigeon &
Turdus sp.
Lark.

Sept. 11

Around 0930 left for the Institute of Zoology. Two buses later arrived at ~ 10:35. My seminar on

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Sept 11 cont

Micro-structuring - population of the catfish role ("kornik") was at 11:00 & with discussion went to about 12:20. Then I had discussions with Jan & Barbara Pizowski about their bird research until 1340. Worked (with tea & discussion) in Kryszewski's office until 1505. Had interesting political discussion with Regina R. & Leszek N. Took drybagged bus back to Warszawa Centralna & walked to hotel (carried liquid N tank back to hotel with me). Took look around Cepelia store near the hotel (on Marszałkowska) & then had dinner in the hotel dining room. At 1900 met R. Rogalska & we walked to National Philharmonic concert (Filarmonia Narodowa) which started at 1930. The program was Symphony II by Gustav Mahler & was excellent. They also had a large chorus & 2 guest soloists (singers). Did some work.

Sept. 12

After breakfast organized my slides on New Guinea, & started to reorganize my baggage so I can leave 1 bag at Warszawa. At 11:25 left on bus (A) for Andrzejewski's. (10 Stary Basni, no. 7) Arrived ~ 12:30 because I went past my stop by one & ended up at a giant "flea market" with hundreds of cars parked & big crowds. We left almost immediately for Białosteka Dworska (White meadow estates) which is the site NW of Warszawa where a new town is planned, for

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Sep. 12 cont.

25,000 people. Roman went over the plan in detail & we walked around many areas. The children in the local school are being taught about the changes to come. The area will have green belts & a restored river which has disappeared recently because of dropping water table levels - due partly at least to a canal nearby which connects two river systems. I took a picture of an old oak tree (dub) which is an example of a class of trees registered by the State & labeled as protected. There are also some relics of natural vegetation connecting interior park areas with those on perimeter. Also bicycle paths. It is a flat area with sandy dune ridges interspersed with fertile agricultural soils. Train, bus, & highway transportation will be provided. Currently the area is only low by train from Warszawa because of indirect routes. Then we drove to other side of Wista & edge of Kampinos Forest where I had gone earlier with Pizowski's. The swampy basin here is a closed watershed which used to be a lake, but is now a swamp because of dropping water table levels. In this swamp lives an isolated population of Microtus oeconomus. We walked around swamp following a sandy ridge to a hill (~130 m. elevation) which is the highest point for 100 km around Warszawa. We collected a few specimens of a plant (Umbelliferae) to feed to a larval Papilio which Roman is keeping in his flat.

=t.m.ze

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Sept. 12 cont

Rana esculenta juveniles are abundant around the edge of the swamp. We also saw 2 specimens of Hyla arborea + I photographed one. Returned to Andrzejewski's flat at 1630 where R. Regulska was waiting for us. We had dinner, talked, + I ~~ironed~~^{ironed} 2 shirts. Then I showed slides from New Guinea, + Roman showed some from Khera-kum desert SE of the Caspian Sea where he spent 1 wk in ~1970 (after waiting 3 wks. in Moscow for permission), + also visited in 1961. Regina + I left ~10:30 as we could catch a bus back into town.

Sept. 13

After breakfast repacked suitcases + took the small one to the baggage room for storage. At 10:00 left to go to Tomianki to spend the day at the home of Gabriela Bujalska + Leszek Grün. About 8 years ago they made the difficult decision to leave Warszawa + live in the village. They are glad how that they did, but Gabriela still must do most shopping in the city. They have a nice house, a very interesting garden with many exotic plants including Escholtzia californica + many varieties of American iris, + a dog named Oscar. We had many interesting discussions until about 2130. Gabriela then walked me to the house + I got back to the hotel ~22:30.

Sept. 14

Got up 0430; checked out of hotel at ~0510 + walked in light rain with baggage to Warszawa Centralna.

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Sept. 14 cont.

I was very late before I got to track (person) 3 to get the 0600 train to Kraków. I had a good 15 min. to spare. The train pulled out at exactly 0600. Very comfortable seats in compartments of 6 people. Stopped at Radom 07:26, Skarżysko Kamienne at 08:00 & Kielce at 08:38. We arrived Kraków at 10:28 (4 hr. early). Rain all the way. There has been heavy rain in Kraków & I noticed some flooded streets. I was met by Witadek Grodzinski (age = 46). He checked us into the Hotel Cracovia & then we went to the University. Met two Americans who have been in Katowice for the past week & are interested in pollution ecology. One was Dr. Craig MacFarlane who is with EPA in Corvallis, Oregon. At the University Witadek told us about their program in pollution ecology & then gave us a lecture with slides on the pollution in the Niepołomice Forest 10-20 km. from Kraków. This Forest receives the prevailing winds & fallout from Nova Huta (the huge steel refinery near Kraków) as well as other air pollution from Kraków. The forest is slowly dying & there is a massive interdisciplinary research effort involved in its study. Then Jan Kostowski took a taxi into the center & looked for a restaurant for lunch. Most were closed or had a long waiting queue. Finally we found one & had good deer cutlets. Jan is planning to go to the Univ. of Georgia for a 1+ yr. Postdoctoral Fellowship starting in Nov. - with R. Wiegert. Then we walked in the rain back to the Hotel Cracovia. I took a nap

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Sept. 14 cont.

for about 2 hours. Then at 1915 Gromyński picked me up at the hotel & took me to his flat for a very nice dinner & evening of discussions with him & his wife Krystyna. Their son Peter is on a several month Litch-Liking trip with his girlfriend around Western Europe. Their daughter Margareta was home & is 15½.

Sept. 15

Had breakfast at hotel with 2 Americans that I met yesterday & their two guides from Katowice. The 2nd one is chemist from Univ. of Iowa, Iowa City 52242: Dr. Clyde W. Frank (Dept. of Chemistry). Wtatek met me at 1000 & we went to the University to leave some of my baggage there & to pick up traps etc. We finally left for the Tatra Mts. - Wtatek's Lada (Russ.) car at about 1100. Overcast with some rain all the way. Arrived Zakopane about 1300. Went to Natl. Park Headquarters for permission to enter the Park, & then had lunch in a private restaurant - excellent service. Rain continuing. Drove up to Chochotowska where there is a chalet or hostel. The last 7 km is for walking only, but we drove in because we had all the traps to carry. Just below the hostel is a shepherd's hut occupied by 2 old couples. They let me set 3 traps in their house & 7 in an adjacent barn with a hay loft & pig below. The mountain people were from the village of Witów. Back at the hostel we arranged to set traps in the kitchen, laundry, various storage rooms,

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Sept 15 cont.

+ a linen storeroom on the 3rd floor. A total of 19 traps set in the Hostel. Then we set 5 outside (2 in garage, 1 in food storage bunker, + 2 along side the building). Total traps set = 34. Traps were metal, with falling door everywhere except for 2 small collapsible Sherman's. Bait used was pieces of bread soaked in some kind of grease + wheat kernels. Finished setting by 17:30. Rain continuing all day. About 1845 we made our dinner in the Hostel dining room supplementing what we brought with what little was available from the Hostel. They even had 2 large chim glasses holding 2-3 cups. W. T. & I had lengthy discussions about the Ecology Congress next summer + many other things.

Sept 16

After breakfast picked up all traps. Caught total of 6 Pipodermus flavicollis: 1 in linen storeroom, 3 in shepherd's barn, 1 in garage (dead = WZL # 3813), + 1 outside of Hostel. We decided that the R's catch indicated there were no Mus in Palana Chochotarska + we must therefore set traps at lower elevation + outside of the Park. During the night fresh snow fell to within 1 or 200 m. of the Hostel. It was still overcast but with only intermittent rain. Drove out of Park to junction with road to Zakopane. This junction area is called Roztoki. There seems to be only one active farm above this junction + R's is not very far above. At the junction is a house belonging to the Forestry

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Sept 16 cont.

Deft. We set 7 traps in this house. Turning on to the road to Zakopane we soon spotted a older house - barn combination which looked promising for Mus. So, we stopped & talked to a very fat lady house wife. She thought we were crazy & that perhaps Poland should start exporting mice to the U.S. We set 8 traps in various rooms in her house & 2 more in the loft of her garage. In the kitchen she showed us bread that had been eaten by mice. This village is called Obruchówka. Then we continued on to the village of Kościelisko which is only 3 km W of Zakopane. We ^{parked} walked into the home of a couple who are friends of Grodzicki's as they often spend vacations renting rooms in their home. The wife is a Landscaper artist & the husband is a excellent carpenter & wood carver. Their home or barn ^{was} beautifully constructed of logs etc. The husband is building a prefabricated log house for someone in Warszawa (the house is to be mountainous style). We set 5 traps in their house & barn. Then they led their nephew (whom they seem to have adopted because they have no children) take us to a neighbor's home not too far away which they report has more mice. This place did indeed look good & we set 12 traps in their barn (1 in bathroom). This makes a total of 34 traps set. Then we went to Zakopane to have lunch in the same private restaurant ^{which} we were in yesterday. Władysław then showed us around the touristy parts of

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Sept. 16 cont

Zakopane, & I bought a few souvenirs. Then we returned to the Hostel & took a walk around the Polana (= mountain meadow or clearing in the forest) visiting a small chapel on the upper edge of the meadow. Found a dead Sorex along the edge of the path which seemed to be in perfect condition (WZL# 3812). It is Park Jolig - supported by Wtadek - to have some sheep & cattle grazing in the Polana to prevent disappearance of the meadow through succession. Someone seems to have made a few small livestock enclosures to measure the effects of no grazing. After dinner, mostly supplied by us, ~~we~~ I made flat skins of the 2 specimens. The 5 live Apodemus were put together in a large cage.

Sept. 17

After breakfast, we packed up & left the Hostel, & went to get our traps. At the Forster's house we caught 1 Apodemus flavicollis (WZL# 3820). At Obrochtołaska (10 traps) we had 3 Mus musculus in the house. In Wtadek's friend's house we had 2 Mus but one apparently escaped because later 1 of the traps was empty. The friend also reported that they had lost another one by peeking into a closed trap. We passed here for tea & conversation & bought 2 beautiful blouses for Helena (the wife) for zł 700 each. That was all that she had on hand that were completed. Finally, we

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Sept. 17 cont

Went to the neighbor's home & here we fed 2 more
mice (1 was almost dead ^{from cold} but I revived it). This gave
us a total catch of 7 mice, but 1 was lost. A
common note in much of the local landscape is an
alpine white flower called ~~Edelweiss~~ ^{Edel}weiss (= German). Wtadek's
friend also showed us a horse-drawn carriage which he
was making (almost finished). It was a beautiful hand-
crafted job. This couple also folk dances mainly at weddings
& they played us a record (Pohodale I) of wedding tunes.
Dancing shoes of local style somewhat reminiscent of
opankas are called "Kiepcie".

Then we drove back into the Park, this time into the
eastern Tatra to Morskei Oko which is a beautiful
deep lake at 1400 m. elevation. The name of this lake
means "eye of the sea". We had lunch ^(perogi) at the hotel
by the lake. Before we is supposed to walk in the lake
2 or 3 km. but as we had permission & ~~it was~~ we were
short of time we drove all the way to the hotel. After lunch
we walked all around the lake. It was fabulous scenery
& I ran out of film at the beginning. The lake has a
native trout & introduced salmon. Fishing is not allowed.
The road to Morskei Oko goes along the Czech border
for quite a few kms. We drove back to Krakow
stopping in a small village where Wtadek wanted to get
some shoes for his over-sized feet but we found that
the shop was only selling to village residents. (This was

Saw numerous
sp. of P. mus
cambrus (hinder
dim) - only few
hundred individuals
left - all in this
valley. During
fire common
& typical of
subalpine
"Krumpholtz"
zone.

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Sep. 17 cont.

The only place where he could consistently find shoes to fit him. We also paused briefly to view a statue of Lenin in Poronin. We left on nice at the University, & then I checked back into the Hotel Cracovia.

Interesting birds seen in the Tatra:

Turdus turquatus - many seen feeding on Sorbus berries
Nuthatch (sw. & ^{orskie} ~~Monte~~ Oke)

Jay

Dipper (several)

Redstart - (sev.)

Robin - 1 (M.O.)

White Wagtail

Greenfinch

Had good dinner in the hotel: roast beef & potatoes & pea soup for \$193. Worked on my seminar for tomorrow.

Sep. 18

Arrived at the Inst. of ^{Environmental Biology} ~~Animal Ecology~~ at ~ 0845.

My seminar on "Ecology & social behavior of the taiga vole" was scheduled for 0915. Met Henryk Szarski who is herpetologist & knows Wakes. Was in Berkeley in 1959. Also met Dr. R. Tertilt who has recently returned from 3 years in Nigeria. There was good discussion following the seminar. Then I started to work on the mus specimens. One mus had died so I made a flat skin of this one (WZL # 3819). The remaining five I processed for

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Sept. 18 cont

Chromosomes, blood & tissues, & part the skull.
Except for 2 paws & eat an apple, I did not finish
this until ~ 1815. The institute emptied out by 2-3 pm
except for Jas. Kostowski & we talked briefly later in the
afternoon. At 1800 Wtadek came back. Then I made a
flat skin of the Apodemus from Roztoki (WZL#3820)
It was almost 20:00 before I quit for the day & walked
back to the Hotel. Diner this time (Lalimo + pea soup)
was ~ Zt 122. Found out that Wtadek makes ~ Zt 12,000/
mo. & Krystyna his wife ~ 8000. Also 1 kg of coffee
costs \$8 at Pewex or ~ Zt 700 but "rarely found" except
at Pewex. Because of a election last year the Director
of the Inst. of Environmental Biology is Adam Lomnicki
(Assoc. Dir. Bogusław Bobek) & the head of the Dept.
of Animal Ecology is Andrzej Górecki. Wtadek resigned
from the latter position when Dept. heads lost the power to
fire technicians.

Sept. 19

At 0900 met Adam Lomnicki at his office in the
Institute. We talked until 1210. Then I started to work
on the Apodemus from Polana Chochotowska. One ♀ was
dead & partly eaten: --107-26.5-18.5; no embryos, faint
placental scars; ovaries inactive. The other 4 were in
excellent condition. I made flat skins of them. Wtadek
also came in & I talked to him briefly. About 1415
Adam & I went off in his Fiat Polski to look for lunch.

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Sept. 19 cont

We have SW day the Wista ~~on~~ stopped briefly at
Kopiec Kościuszki which is a hill built as a monument
to Tadeusz Kościuszko. There is an Austrian fortress
built around the hill, & it is now a hotel & museum.
Light rain from early afternoon to evening. We continued
on to a private restaurant located below a hill with an
old monastery on it (Wolski Fort). We had to wait a while
but it was a good meal. Met a girl from Alliance College
Pennsylvania who is spending 1 yr. at Jagiellonian Univ.
to learn Polish (arranged by Kosciuszko Foundation). We
had lunch with her & her boyfriend who did ^{not} speak English.
There were several girls from US in the program & a total of
about 30 foreigners in all. Adam took me back to the
hotel where I waited for a couple of hours. Then he
picked me up again & took me to his flat. There I met
his wife Rita & we were joined by J. Kostowski & a
student from Lodz Univ. who is spending 3 weeks with
Adam working with Tri. bolinum. We had a nice dinner
(a large summer squash with buckwheat, potatoes, mushrooms,
salad & a red wine from Portugal), and a good
discussion lasting until 15 past midnight. Adam
told me about Józef Piłsudski, an important early 20th
century Polish military leader & politician for whom a
small hill has also been built as a monument.

Jerzy
Barbara

Sept. 20

Kostowski & the student walked me back to the

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Sept. 20 cont.

Hotel. It took about 30 min.; there was some light rain & instantaneously heavy fog. Got to bed ~ 01:00. There is a large scouting jamboree being held in Kraków this weekend & there are many scouts in evidence marching about. Apparently there are 3 national scouting organizations - 1 official & 2 unofficial. After breakfast I caught up on my long-overdue note writing. At 1400 checked out of hotel & was met by Bogusław Bobek in his large Italian Fiat. We went first to the University to get my specimens aliquoted in frozen tanks. On the windowsill of the lab I was working in got an excellent view of a Spotted Flycatcher (Muscicapa). Then we went to the train station.

Got on board at 1445 & the train left exactly on time at 1525. This was the last day that a direct train from Kraków to Poznań will be available. Train ride was grueling, as we did not arrive in Poznań until 23:05. Stopped at Trzebinia (16:06), Mystowice (16:39) - no stop, Katowice - multiple stops (17:00±), Tarnowska Góra (18:43), Lubliniec (18:40), Ostrow (21:00). Uh - expectedly I was met by Irena Batoniak & her husband. They took me the short distance to the Hotel Mercury. She works as a chemist in Ryszkowski's Institute.

Sept. 21

Left Ryszkowski met me at 10:00 & we walked the few blocks to his Institute (of Agrobiology & Forestry). He showed me around & we chatted under noon. His Institute

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Sept. 21 cont.

Has 7 divisions: Lab of Hydrobiology (actually agricult. insects on aquatic systems in the agricultural landscape), Biol. energetics and chemistry, Trawno field station, Forestry (actually phyto pathology), the Museum, Library (21,000 volumes), and Botanical Lab (mainly concerned with forest productivity). There are 23 scientists including 4 professors and 2 asst. profs. The Museum & Library are inherited from the old Poznan natural history society. They are working on some new ecologically-oriented exhibits which are to open in early October. Then spent 1 1/2 hrs. talking to Leszek Berger who has worked for many years on the Rana esculenta complex. This is a complex & significant problem, some of which he is collaborating with Tom Uzzell of the Philadelphia Academy of Sciences. More talk with Lech & then we went for "lunch" at the Hotel Merkury. At a little after 1500 Lech went back to work, & I wandered around the Centrum for about 1 1/2 hrs. Took photo of a large statue of Adam Mickiewicz, a 19th century poet & intellectual hero of Poland. Also photographed a new monument, erected Feb. 1980 honoring the 1956 uprising against the Soviets - Jan. of that year. The inscription reads: Za wolność, prawo i etykę (To liberty, ^{honesty} truth, & bread), Gzerniec (June), 1956 g. At 1830 Lech came to the Hotel & we took a taxi to his flat - NW side of city. Had very pleasant evening with him & his wife Grażyna (Lithuanian name). Took ~~for~~

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from back to Hotel just after 2300. ~~Arrived for~~

~~Sept.~~
Sept. 22

Met Lick + Leozik Berger at the Hotel. We were
all driven in a PAN jeep to Turew (after a brief
stop at the Inst. to pick up a centrifuge). Turew
is about 40 km. S of Poznań. We stopped at a ~~small~~
village near Turew to get *betizna* (go) + cheese, but
there was no cheese available. The field station at
Turew is centered on the palace built by General ^{Pozykowsky}
Chłapowski who died in 1875. He was an important
general + also agriculturist (trained in England - agric. +
France - math) who had a very progressive systems-view
of the agricultural landscape. Among other things he
developed the shelter belt system widely used in this part
of Poland. Once at the Station I started to work on the
live *Mus musculus* trapped for me in the palace + surrounding
area. Except for a break for lunch + a slide show of
Turew fauna, I worked until 1630, getting blood
tissues, etc. from 17 mice + 3 dead ones. Then Lick
gave me a quick tour of the palace + grounds, + led me
out on a stone at the base of a 600 yr old oak which he
said was previously stood upon by Napoleon, Frank
Golley, + Norm French - how could I refuse? We also
had a look at some of Berger's bog ponds + of the
general agricultural landscape where they do other
(Saw Tawny Owl near palace.) = *Strix aluco*

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Sept. 22 cont.

a grove ecosystem studies. Then we drove back to Poznań. Lech + I had a picnic at the Hotel + discussing more regarding the Int. Scot. Congress next summer. I had dinner in the Hotel restaurant. Worked on seminar for tomorrow. Director of Turaw station: Jerszy Karg

Sept. 23

Lech picked me up at Hotel at 0930 + we walked to his Institute. From 10-11 I gave seminar on micro-structuring in Calif. Voles. Following discussion I explained why I was sampling the local Mus populations with background on current thinking about taxonomy of Eurasian Mus. More discussions with Berger + Dr. Janusz Truszkowski. The latter worked on Microtus ervalis at Turaw for his PhD research under Lech. Now he is trying to develop an electrophoresis lab for the Rana esculenta project. A little after noon Lech + I (+ driver) for town of Poznań. We went to the "katedra" on an island in the river. This church was first built in ~989 along with a fortress. It was destroyed + rebuilt several times, + now is in Gothic style. Lech got a key from a priest (who was cleaning his nails with a small cross) + we went down under the church to see the tombs and some of the recently discovered + excavated walls + artifacts from the original church. The first two kings of Poland were buried there, but no evidence remains because

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Sept. 23 cont.

of grave robbers. Next to this church is a small one which Napoleon wanted to take to France, but before it was dismantled, his reign was over. Then we went to the old town & old market place. There there is another large church; this one is baroque style. We also visited briefly a nobleman's house on the market place that now belongs to PAN. It has a formal meeting room called the "raspberry room" because of the color of its walls. Had lunch with Lech in restaurant on the square & later went to a wine cellar for a glass of wine. At 1500 we rejoined our driver & went back to the Instytut. Stopped to buy a record on the way. Brief discussion with Lech & then at 1550 I was driven to the train station & with the help of 3 people was sent on my way. The Poznań area is historically the center of Polish culture because it was the area of the Wielko Polska tribe, one of the original 3 tribes. Later this tribe conquered the Mialy Polska (Kraków region) & Małopolska tribe of central Poland to form the first united Poland.

Train left Poznań at 16:15 - exactly on schedule. After an uneventful ride we arrived in Warszawa at 20:00. Then I took my first serious goof of the trip - I left my camera on my seat of the train. Jan P. Nowski was to meet me, but he was a little late so I walked to the Hotel Forum with the help of a young chap who seemed determined to help me carry my bags.

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Sept. 23 cont

Jan was at the Hotel waiting for me. He helped me check in & then took my liquid nitrogen tank with him to bring tomorrow to Dziekanów L.

Sept. 24

Took bus & arrived in Dziekanów at 0945. Until 11:30 talked with group in Population Dept: S. Janion, G. Bujalska, Wacek Malinowski & 2 others (both of whom work on Cladonia on the island in the Mazurian Lake). None had been to my seminar so I covered it in brief outline. We also talked about "superorganisms" & future directions for ecology. The work on "the island" includes studying demography & climate & vegetation & also historical aspects of pop. development (several years ago they removed all "horned" from the island & replaced them with colonizers from the mainland). They also have a monitoring project on Cephus (sarni) & Microtus - using questionnaires to hunters. They are interested in documenting the influence of human activity on these species. For 3 years they have received 2000 responses per yr. on C. They also have a project on white mice in captivity. At ~11:30 Krystyna left a meeting she was attending & we went to Łuże to check 30 live traps set for Microtus oeconomus. This is the lake basin visited on Sept. 6 & 12. She had run the traps several times already. We caught: Microtus oeconomus (larger & darker than arvalis, but still smaller than californicus) - 5; M. arvalis - ~5. Phodopus

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Sept. 24 cont

syphacanthus - 2 ; A. agrarius - 1 ; Sorex araneus - 1.
Back at the Instytut & talked with Dr. Tadeusz Pius
about IEE III. Krystyna helped me to arrange
equipment & chemicals for processing microwaves on the 26th
(Sat). They have no natural gas & all their hot water tanks
were empty so it was not possible to fill a few pipettes
for demonstrating the eye bleeding technique. They do claim
to have water distillation ^{we} ~~was~~, however, we will see. At 1400
we had lunch at the Inst., & ~ 3 we left to drive to
Warszawa Centralna to see if by some miracle
Charles's camera may have been turned in to lost &
found - no luck. From there I walked back to the
Hotel, arriving about 16:15. At 18:30 I met Anna
Dobrowolska who had invited me to the opera. We
walked to the opera house (~ 26 km.). The performance
started at 19:00. It was "Halka" by Stanislaw
Moniuszka (1819-1872). This is a Polish version of a
traditional love story & is a national opera. Three folk
dances were featured (polonaise, mazurka, & a
mountain dance unlike anything I had seen before).
We had a snack at the H. Forum afterwards.

Sept. 25

Took bus to Andrzejewski's, arriving 07:58. We
went to Luiza to pick up the 30 traps there. Jeff of
Instytut joined us with trap boxes. So Andrzejewski's
& I and Leszek Nabagto all gathered up the traps.

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Sept 25 cont.

Catch: Microtus oeconomus - 1, M. arvalis - 2
(kept as 1); Apodemus sylvaticus - 1; A. agrarius - 1,
+ 1 dead Sorex. In Andrzejewski's kitchen we pulled
out a few ^{glass} pipettes on their gas stove. Then Roman
went to work, + the rest of us drove to the M. arvalis
study area, picking up R. Rogalska on the way. This
made 4 of us plus a driver. The study area is a
government farm about 25 km ^W of Warszawa called
Płockocin. On this farm they have 3 grids, each
15 x 15 traps at 5 m intervals = $\frac{1}{4}$ ha. One grid is in
an open meadow cut once per day + subsequently grazed.
Although there is currently a peak in numbers of arvalis, they
caught only 24 on this grid. Fairly strong wind kept setting
off their traps because the open door sticks stuck up into
the air. The other 2 grids are in alfalfa ("lucerna").
They had a much larger catch + breeding was still going
on in the plots. We also saw evidence of construction of
deeper winter burrows in the sandy soil of the area. They are
now actively recasting the pellets separately in female since
several weeks ago I showed them the technique ("br" = fresh;
"r" = old open, "rd" = wide open). I also demonstrated the
foot-obliterated bleeding technique on 2 voles; it worked
fine. K. successfully tried it on a 3rd individual.
Finished 3 grids at 12:00. Returned to a small trailer
by the farm's main village which they use to autopsy dead
animals + have a little "bar-luck". We found the

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Sept 25 cont.

trailer to be vandalized with most of their equipment stolen. They called the milicija who promised to come out promptly. While we waited we had some pre-lunch. At ~ 1400 they still didn't come & so we left to have lunch in a nearby village^(Btonia). We stopped at several shops on the way - to get meat & tooth-paste (unsuccessfully), etc. At 1600 we started to run grids again. Catch was much smaller. There was light rain between our two sessions on the grids, & wind continued strong. I found a dead weasel (Mustela erminea) on one of the alfalfa grids; there was nothing obviously wrong with it. On way back stopped in neighboring town to report to police (milicija) about the break-in to the trailer. Then we drove back to S edge of town where Regina & I got out to get a bus into town. The others returned to Dzików. From the central railway station I walked back to the Hotel arriving ~ 1900. Had dinner in the hotel after a shower & change of clothes.

Sept. 26

Went to SAS office on Navy Street only to find it closed even though sign on door says open Saturdays (Subota) 8:30 - 12:30. Ork's office in Hotel was also closed even though door listed did not exclude Sat. So confirmation of my airline reservations will have to wait until Monday. Sent cable to Nils Stenroth in Oslo responding to his

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Sept. 26 cont.

cable received yesterday. Took buses to ~~meeting~~
Dziątków arriving at 10:25, 25 min. late partly
because first bus was so crowded the rear door wouldn't
open & I could not get off at Plac Komuny Partyjskiej to
transfer & had to come back from the next stop. Wiera
Walkowa met me at the dusty bus entrance to make sure
I got into the bus OK. At 11:30 she gave me a
lunch in her flat at the Inst. & again at about 16:00.
Otherwise I worked continuously processing 12
microradiographs from Loize. I attempted chromom slides
for 8. I also skinned about 8 rolling up the skins
tying in a plastic bag & putting in the liquid nitrogen.
I didn't quite finish the last 4 chromom
preparations before I had to leave after 1800. Left
processed suspensions in the centrifuge. There are also
about 7 more microradiographs left to do tomorrow. Got a ride
with Dr. H.-I. Kowska & Dr. [?] Kajak both hydrobiologists
at the Inst. Kajak walked me to ^{near} his flat where I was
met by Jan Pirowski. We walked to Jan's flat where
his daughter Agnieszka & I had dinner. Afterwards Krystyna
came by briefly to confer on plans for tomorrow. Jan & I
continued our discussions regarding Planning session B
for ICE III. At 22:30 took train back into town.
As train took unfamiliar route I got off a little too
soon & had to walk from the Waryżowa Ochota railway
station. I was not sure if the train turned ^E on Alje

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Sat
~~July~~ 26 cont

Jerogolinskie or not; it did. Got back to Hotel about 23:10. Received notice from Hotel that day light saving ^{time} is ending tonight.

Sat
~~July~~ 27

Left Hotel ~ 09:15 to take buses to Dziankav. They were very crowded & many people were going to the country to pick mushrooms. It was a warm day, & I was without a coat & with my sweater in my brief case (which it stayed all day). Arrived Dziankav ~ 10:30 & as Wiera Walkowa had given me the keys, I got into the lab & worked to finish processing the Microtus oeconomus from Luga. Finished taking blood, tissues, & skulls from the 8 remaining individuals ~ 13:30. Krystyna arrived at 13:00 & when I finished we took the liquid nitrogen tank & my equipment & drove back to the Hotel with it. We looked at some of the shops around the Hotel, but everything was closed. So we drove out to the flat arriving ~ 1545. Roman had started the dinner so we ate ~ 1630. Then we talked & drank tea & talked & had supper about 2200. I finally left about 2230, taking the A bus back to the Hotel. Worked until after midnight on my seminar.

Sat.
~~July~~ 28

Went to SAS office in Novy Svich arriving at 0830. They opened later at 0835 & I confirmed my reservations to OSLO. Left on ~~buses~~ buses to Dziankav at 0915, arriving about 10:15. Gabriela Bujalska was not in

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Sept. 28 cont.

Today so I wrote a message for Dr. Walkowiak who is in a meeting w/ Pinowski, Andrzejewska, Nalaglo, etc. so I left a note for her too. Wacek Malinowski was having his name day so I joined the party in his office. Then I talked with him regarding his research at Zonna (his PhD work) & current work on captive white mice.

The Zonna research involved 2 large grids run weekly for about 60 & 90 weeks respectively. One was for Clithionomys glareolus (hornica) & the other for Microtus arvalis (horrik polny or zigzagging). He is interested in spatial & temporal dimensions of grouping, & is trying to look for acquaintance groups of individuals based on trapping record. He's also calculated \bar{x} distance between centers of home range & finds a consistent value over wide range of densities. For the mice he is studying groups of 8 per pen in 2 large cages connected by 2 tunnels. He claims that an isolated mouse starves to death on 2.5g of food/day, but that grouped mice do fine on this amount. Then he went back to a 2nd party in his office. Krystyna got out of her meeting at ~11:30. Met Dr. Fisher who is Vice-Director of the Instytut. Also Wicka Mazurkiewicz said hello briefly. Krystyna arranged through Pinowski to have a letter signed by Fisher stating that I had permission to take specimens out of the country. We didn't get away from the Inst. until about 1300. She brought the Fiat & so we drove to the "old town" for some shopping. Then we had a quick lunch & rushed

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Sept. 28 cont

Off to Warsaw Univ., arriving at 1505. My seminar - on Reproductive ecology of the California vole, was scheduled for 1500 but others were later than we began ~15:15. I was introduced by Dr. J. Gill. Discussion went to about 16:30. Gill gave me some documents to deliver to Dr. Warren Evans of UC Davis. It was well after 1700 by the time we got away. This seminar was arranged by Anna Dobrowolska. Krystyna then dropped me off at the Hotel. I bought a few items at the Cepelia shop near the Hotel. Had dinner in the Hotel (this time it was 38 + 40 tip). Back to my room to begin getting organized for tomorrow's departure. At dinner waiter offered to sell me a "souvenir" of Poland. It turned out to be a 200g. can of black caviar for \$30. Needless to say I declined his offer.

Sept 29

Took taxi to airport leaving Hotel at 11:05. After checking ~~board~~ baggage had cup of coffee with Krystyna. Airport officials objected to my taking the liquid N₂ tank in the cabin, but no one stood up to check it into baggage so in the end I took it on the plane with me. Plane (SAS) left on schedule at 13:05. Arrived Copenhagen ~ 1420 (nice lunch on flight). Met couple from Bay Area on plane: Meyer Galler (CSUH Library, Hayward, CA.) + Beth Sibley (Moffitt Library, UCSB). They had been traveling in Russia + for a few days in Poland. Galler

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Sept. 29 cont.

was born in Białystok & ~~was~~ escaped from the Warsaw ghetto in 1940. Spent 12 years in Soviet prison before being exonerated. Lived in Copenhagen. Took off for Oslo (SAS) at 15:18, arriving 16:05 (on schedule). We met Nils Chr. Stenseth upon speedy passage through customs. We drove to the University of Oslo where he had arranged for me to stay in a tiny guest room in the Biology Bldg. We talked until about 17:15 & then drove to his apartment where I had dinner with him & his wife Bjorg. They have a beautiful 2-story flat. About midnight he took me back to the Biol. Bldg.

Sept. 30

Met Nils at 0805 & we went to student union where I had breakfast & he had a cup of coffee. Afterwards we talked & I worked on my seminar & reading papers. Also worked for $\frac{1}{2}$ hour as I did not sleep much last night. From 12:15 to 13:15 gave seminar on "Substructuring - populations of the California vole" (Zoological Institute). Then we went to the Univ. cashier's office where after some delay I was paid ~1850 kr. for my seminars. Had lunch in small cafeteria in the Biol. Bldg. Afterwards much more discussion. This night time much of it was with Erik Framstad (who spent 1 yr. at Colorado St. Univ.) & Per Magne Jensen (student working with fish fall traps with Lemmings). Rested for 1 hour. Then Nils & I were driven into town to have dinner at

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Sept. 30 cont.

a tiny Spanish restaurant (España con Miki). It cost my sack Kr 85. (exchange rate is ~ 5.50 Kr. to the \$.) Rain in afternoon & evening. After dinner we walked around the downtown area (Sentrum) for awhile. Then I took the subway-tram back to the University (Kr. 6).

Oct. 1

Nils joined me for breakfast at the student union. It is hard to believe there are 20,000 students at the Univ. when it seems very quiet & uncrowded. We worked most of the day discussing the "multi-factorial" model of pop. regulation and trying to model the Microtus californicus population cycle. At about 1300 we drove to the Edward Munch Museum for lunch in their restaurant & tour of the museum's Munch paintings. It was very worthwhile. Rain most of day, sometimes hard. Got back to the desk at 1500. Continued discussion of modeling until 1715. Then I went to my room to work on tomorrow's seminar. At 18:15 Nils & I left & took the bus to L.'s apartment for dinner. Again Byron cooked a great meal. At 22:30 I took the bus (no. 20) back to the University.

Oct. 2

Went to student union for breakfast at ~ 0810. Nils joined me there. At 0915 gave seminar on the ecology & sociobiology of the tundra vole. Good discussion.

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Oct. 2 cont.

until ~ 11:00. Several us went for lunch in the cafeteria in the B. biology building (including Eric Framsted + 2 students - one working on Lemmings using pit traps + one working on Sciurus vulgaris using telemetry. After lunch I went to my room to write a letter to Pöhl (K. A. A.) + then went to union bookstore + bought 2 records of Norwegian dances (total kr 105). At ~ ~~16:00~~^{15:45} went back to Nils' office + we continued with our modeling project. At about 18:30 we drove to center of town + had dinner in the Grand Cafe (in the Grand Hotel). This restaurant was a center of bohemian culture at the end of the 19th century. Nils dropped me off back at the University ~ 22:30.

Oct. 3

Got + union for breakfast at ~ 08:45. Met Nils Chr. about 09:30. We left for shopping in Sentrum of Oslo. Stopped until 13:00. Lots of crowds in downtown area with folks for various political causes, street musicians, religious groups, etc. One group on Lovén back + Western Avenue was handing out leaflets, + their sole mission was apparently to "have fun". Large sections of shopping areas are for pedestrians + trams only. Returned to large store selling hand made things only to find that it closed at 13:00. Drove to mountain style restaurant a short distance north of town which

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Oct. 3 cont.

is close to two spectacular ski jumps. Had lunch in cheaper of two restaurants in the mountain chalet. Returned to Zoology Institute to continue talking & working on modeling M. calif. cycles. At about 1900 we went & went to Restaurant called Pinnocchio's for dinner. Returned to room ~ 2200 to start packing my suitcases again. ^{Overcast all day w/ light rain in afternoon & evening.}

Nils thinks that the average annual salary in Norway is about 8000 Kr. I did not meet Nils's colleague Eivind Østbye because he is spending a week or so in Poland (Łódź). The new appointee in the important position of Professor of Ecology & Morphology at the University of Helsinki is Olli Järvinen.

Oct. 4

Nils met me at 0830 & we drove to the airport. Still overcast. Some heavy rain overnight. We had breakfast at the airport. SAS flight left at 0955 (scheduled departure at 0950). Arrived København at 10:50. Around the airport in København noticed Black-headed Gull & Common (=Mew) Gull. SAS flight to Seattle took off at 12:07 (scheduled departure at 11:50). Flying time 9 hrs & 25 min with 8 hr. time change. At 15:00 we were crossing the E. coast of Greenland. Went over Great Slave Lake & on into Seattle at 13:25. Customs & 2nd lunch. United flight to S.F. on schedule. ~~Arrived~~ Left 1600 & arrived ~ 1745.

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Sagehen Creek Field Sta. - Mammalogy class field trip

Oct. 16 - Left about 10:00. Arrived about 1430. Set

5 Tomahawk traps for Neotoma cinerea in "rock pile"
(along creek E of Sta.) - baited with 1 brown & peanut butter - oat
mix. Also with 4 gopher sets in 2 locations. In evening
had to inspect hole by Sandy Martin on the mound on
mountains in the Basin. Checked traps. Caught 2 Neotoma,
one of which escaped by squeezing through gap along side
trap door.

Oct. 17 - Up at 0700. No additional Neotoma although

all traps had bait taken. Caught 2 adult ♀ gophers
in same set (at same time). There was nothing in a
neighboring set. One skink kind set was flogged & re-set.

So 2 sets left out. I skinned a Microtus sp.?
caught in a trap 300 m. south of the station by
Sandy Martin (WZC # 3867). At 1400 all but 2 of the
group left for Silver Valley & trapping in the desert N of
Chilcoat (Plumas Co.). I set out a line of 19 by

Phantom traps - baited dry oats with a little peanut butter & 1
nut trap.

Two cars with about 1/2 the group left ~ 1800 & returned to

Sagehen. The rest stayed to camp in the desert (actually
a small forested area on the slopes of the mountains). I also

set 4 Tomahawk live traps for Neotoma lepida and
rock outcrops on the slope to the N of the valley. There
was old sign only. Some fresh gopher sign and the group's
campsite (caves, a well & fire). Got back to Sta.

1900. After dinner, about 12 of us spent 1 1/2 hours watching

1.3 mi. N, 0.4 mi. E
Chilcoat
5120 ft. ~~Alt.~~



2 mi. N, 1 mi. E
Chilcoat, 5520
ft.



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Oct. 17 cont.

For beaver in several ponds within ~1 km downstream from the Sta. We heard 1 tail slap & a few loud beaver growling, but otherwise we saw none.

Oct. 18 Up at 0600 so we could leave for desert at 0630 arriving ~ 07:30. Picked up traps & students leaving for the Sta. ~ 0930. Now 12 & Neotoma was hooked. In the Skinner line I had: Dipodomys panamintinus - 4 (2 released & 2 kept by Phil Boylski), Perognathus, Juncos - 3 (all kept by Boylski), Peromyscus maniculatus - 2 (released) & 1 rat trap had 1 D. panamintinus (WZL # 3868)

[When we left for the desert, checked 2 gopher sets left out earlier. One picked up. The other that was previously flagged was again so re-set again. This set was picked up by Duke Rogers in afternoon & caught gopher given to one of students to skin - Chris].

After returning to Sta. had skinning session (skinned my own trap-topped life; lunch; left ~ 13:25. Arrived back 1700.

A few noteworthy birds seen:

Gt. Blue Heron - 2 (Sierra Valley)

Cook's Hawk - 1

Red-tailed Hawk - 4+

Rough-legged Hawk ? - 1

Meadow Hawk - 2

Sandhill Crane - 1 (seen by 1 student in my group) - Sierra Valley

Kingfisher - 1 or 2 (Sagehen)

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Oct 16-18 bird list cont.

Flicker - 2+

Heavy Woodpecker - 1

Acorn " - 1 (Auburn)

Williamson's Sapsucker - 1 ♂

White-bellied Woodpecker - 1 ♂ (S. of Chilcutt)

Horned Lark - Sierra Valley

Stellar Jay

Scrub Jay (Auburn)

Pinyon Jay - 80± (S. of Chilcutt)

Mazppie

Mt. Chickadee

Red br New Lark - 20±

Wk. Lark " - 1 (S. of Chilcutt) - ^{was seen} ~~was seen~~ as it
seemed to be storing food (small cocoons?) -
creek = bark of large tree)

Brown Creeper - 1 (S. of Chilcutt)

Bewick's Wren - 1 (") - sage brush

Yellow-crowned Warbler - 20± (Sagebrush)

W. Meadowlark (Sierra Valley) - 5±

Juncos - 50±

W. cr. & Golden cr. Sparrows - (Auburn).

